Page 1 09:32 <golam shameem> 02/12/2004

Connecting via Winsock to STN

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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS 4	DEC 08	INPADOC: Legal Status data reloaded
NEWS 5	SEP 29	DISSABS now available on STN
NEWS 6	OCT 10	PCTFULL: Two new display fields added
NEWS 7	OCT 21	BIOSIS file reloaded and enhanced
NEWS 8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9	NOV 24	MSDS-CCOHS file reloaded
NEWS 10	DEC 08	CABA reloaded with left truncation
NEWS 11	DEC 08	IMS file names changed
NEWS 12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS 13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 14	DEC 17	DGENE: Two new display fields added
NEWS 15	DEC 18	BIOTECHNO no longer updated
NEWS 16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS 17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS 18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19	DEC 22	ABI-INFORM now available on STN
NEWS 20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS 21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS 22	FEB 05	German (DE) application and patent publication number format changes

NEWS EXPRESS	DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:11:53 ON 12 FEB 2004

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 09:12:23 ON 12 FEB 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 FEB 2004 HIGHEST RN 649538-27-2
DICTIONARY FILE UPDATES: 11 FEB 2004 HIGHEST RN 649538-27-2

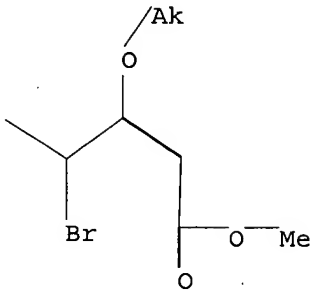
TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

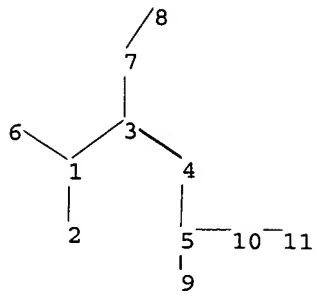
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10634395.str



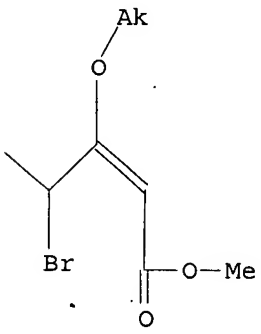


chain nodes :
1 2 3 4 5 6 7 8 9 10 11
chain bonds :
1-2 1-3 1-6 3-4 3-7 4-5 5-9 5-10 7-8 10-11
exact/norm bonds :
3-7 5-9 5-10 7-8
exact bonds :
1-2 1-3 1-6 3-4 4-5 10-11

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 09:12:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4 TO 200
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 09:12:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 74 TO ITERATE

100.0% PROCESSED 74 ITERATIONS 5 ANSWERS
SEARCH TIME: 00.00.01

L3 5 SEA SSS FUL L1

=> FIL CAPLUS
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.42	155.63

FILE 'CAPLUS' ENTERED AT 09:12:49 ON 12 FEB 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 12 Feb 2004 VOL 140 ISS 7
FILE LAST UPDATED: 11 Feb 2004 (20040211/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 10 L3

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:977822 CAPLUS
DOCUMENT NUMBER: 138:55969
TITLE: Preparation of thiazolotriazole derivatives, intermediates thereof, and herbicides containing the derivatives as the active ingredient
INVENTOR(S): Yano, Tomoyuki; Yoshii, Tomoko; Ito, Hiroshi; Ueda, Takuya
PATENT ASSIGNEE(S): Kaken Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 120 pp.
CODEN: PIXXD2

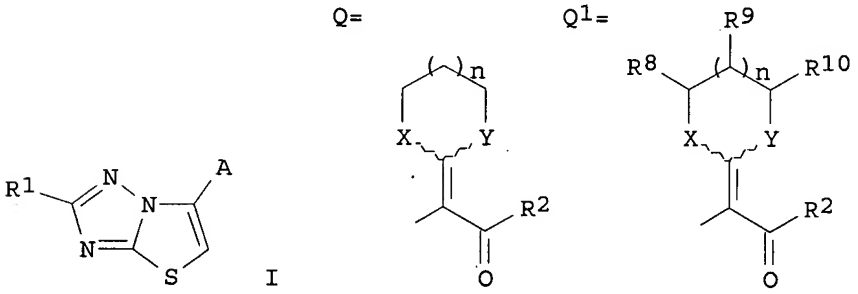
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102809	A1	20021227	WO 2002-JP5778	20020611

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 2001-178182 A 20010613
OTHER SOURCE(S): MARPAT 138:55969
GI

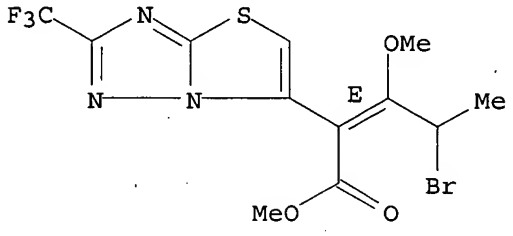


AB Thiazolotriazole derivs. represented by the general formula (I) or salts thereof [wherein R1 = H, halo, C1-6 alkyl or haloalkyl; A = Q, Q1 (wherein X = O, CHR3, NR4; Y = O, S; R2 = ZR5, NR6R7; n = 0-3; Z = O, S; R3 = H, halo; R4 = H, C1-4 alkyl; R5, R6, R7 = H, each optionally substituted C1-12 alkyl, C3-8 cycloalkyl, C3-12 alkenyl, C3-8 alkynyl, Ph, or C7-11 aralkyl; or R6 and R7 together with the attached N from a heterocyclyl group; R8, R9, R10 = H, C1-4 alkyl, halo)] are prepared Disclosed are herbicides containing the thiazolotriazole derivs. I or the salts as the active ingredients, in particular herbicides for rice paddy field. These thiazolotriazole derivs. exhibit excellent herbicidal activity against weeds without doing chemical damage to crops including rice plants, when applied even in a lowered dosage. Thus, a solution of 4.06 g (2-trifluoromethylthiazolo[3,2-b]triazol-5-yl)acetic acid amyl ester in 5 mL DMF was added to a suspension of 1.26 g (60 weight%, 31.5 mmol) in 15 mL DMF under Ar with ice-cooling and stirred for 15 min, followed by adding a solution of 1.5 mL 4-chlorobutyryl chloride in 5 mL DMF, and the resulting mixture was stirred at 0° for 2 h to give (E)-(2-trifluoromethylthiazolo[3,2-b]triazol-5-yl)-2-(tetrahydrofuran-2-ylidene)acetic acid amyl ester (II). II at 100 g/ha postemergence controlled 100% Echinochloa crus-galli, Cyperus difformis, broad leaved weed, Monochoria vaginalis, and Scirpus juncoides in flooded paddy soil vs. 0.1-90.0% for Pyrazolynate and gave no damage to rice seedlings.

IT **479253-48-0P**
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN

(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of thiazolotriazole derivs. as herbicides for rice paddy)
RN 479253-48-0 CAPLUS
CN Thiazolo[3,2-b][1,2,4]triazole-6-acetic acid, α-(2-bromo-1-methoxypropylidene)-2-(trifluoromethyl)-, methyl ester, (αE)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



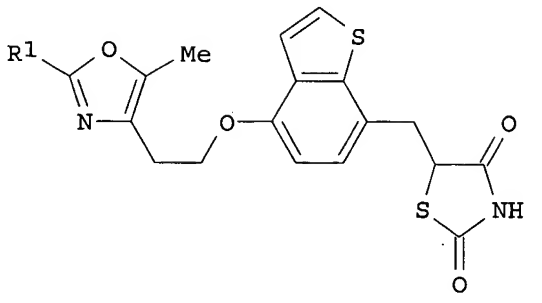
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:780884 CAPLUS
DOCUMENT NUMBER: 135:331416
TITLE: Preparation of thiazolidinedione derivatives and intermediates
INVENTOR(S): Scalone, Michelangelo
PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
SOURCE: PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

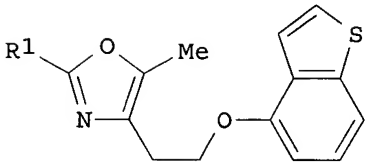
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001079202	A1	20011025	WO 2001-EP3802	20010404
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CO, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2001049445	A1	20011206	US 2001-814907	20010322
US 6531609	B2	20030311		
EP 1282619	A1	20030212	EP 2001-931561	20010404
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003531146	T2	20031021	JP 2001-576801	20010404
US 2003092916	A1	20030515	US 2002-288316	20021105
US 6620941	B2	20030916		
US 2004024222	A1	20040205	US 2003-634395	20030805

PRIORITY APPLN. INFO.: EP 2000-108303 A 20000414
US 2001-814907 A3 20010322

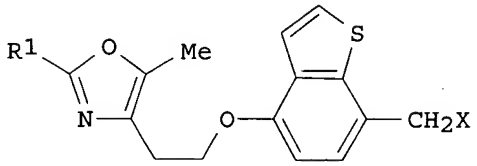
WO 2001-EP3802 W 20010404
US 2002-288316 A3 20021105
OTHER SOURCE(S): CASREACT 135:331416; MARPAT 135:331416
GI



I



II



III

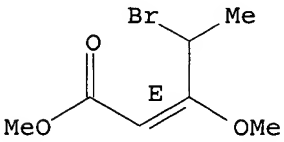
AB The title compds. [I; R1 = (hetero)aryl] and their corresponding salts, e.g., the sodium salts, which are pharmaceutically active substances in the treatment of diabetes (no biol. data) were prepared via bromomethylation or chloromethylation of II and subsequent reaction of III [X = Cl, Br] with 2,4-thiazolidinedione.

IT **369631-82-3P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of thiazolidinedione derivs. and intermediates)

RN 369631-82-3 CAPLUS

CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:533787 CAPLUS
DOCUMENT NUMBER: 111:133787
TITLE: 2-[4-(2-Fluorophenoxy)phenoxy]propionates and analogs thereof as herbicides
INVENTOR(S): Rogers, Richard B.; Gerwick, B. Clifford, III

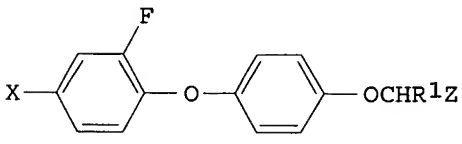
PATENT ASSIGNEE(S): Dow Chemical Co., USA
SOURCE: U.S., 25 pp. Cont.-in-part of U.S. 4,550,192.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4725683	A	19880216	US 1985-765401	19850812
US 4550192	A	19851029	US 1983-528711	19830901
AU 8432306	A1	19860306	AU 1984-32306	19840823
AU 569540	B2	19880204		
ZA 8406674	A	19860430	ZA 1984-6674	19840827
CA 1248943	A1	19890117	CA 1984-462134	19840830
DK 8404187	A	19850302	DK 1984-4187	19840831
GB 2146022	A1	19850411	GB 1984-22059	19840831
GB 2146022	B2	19871223		
HU 35472	O	19850729	HU 1984-3298	19840831
HU 196689	B	19890130		
BR 8404371	A	19850730	BR 1984-4371	19840831
RO 89691	B3	19860730	RO 1984-115607	19840831
SU 1628841	A3	19910215	SU 1984-3785909	19840831
JP 60166638	A2	19850829	JP 1984-183612	19840901
JP 03039482	B4	19910614		
US 4808750	A	19890228	US 1986-885360	19860714
GB 2185014	A1	19870708	GB 1986-21934	19860911
GB 2185014	B2	19871223		
AU 8662745	A1	19870108	AU 1986-62745	19860916
AU 587499	B2	19890817		
CA 1257296	A2	19890711	CA 1988-556570	19880114
JP 01279856	A2	19891110	JP 1989-81643	19890403
JP 03246254	A2	19911101	JP 1990-266151	19901003

PRIORITY APPLN. INFO.:

US 1983-528711	19830901
CA 1984-462134	19840830
GB 1984-22059	19840831
US 1985-765401	19850812

OTHER SOURCE(S): CASREACT 111:133787; MARPAT 111:133787
GI



I

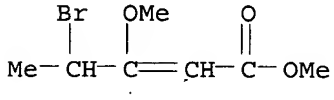
AB Title compds. I (R1 = Me; Z = CO2H; X = Cl, CF3, iodo, Br, F, OCF3, CF2Cl, CHF2, OCF2CCl2H), their derivs. such as amides, esters, and salts, or their analogs I [R1 = C1-3 alkyl; Z = groups which can be converted to carboxy moieties in plants, e.g. cyano, 5-(1 or 2H)-tetrazolyl, alkoxythiocarbonyl, CH2OC(S)NR2CN where R2 = alkyl, (CH2)2CN, and (CH2)2CO2R2] are prepared Decomposition of 2,5-F(F3C)C6H3N2+BF4- (preparation given)
in 10% NaOH at 200°-220° gave 22.5% 3,4-F2 C6H3CF3, which

was treated with 4-HOC6H4OCHMeCO2Me in DMSO in the presence of K2CO3 at 100-110° to afford 55.9% I (R1 = Me; Z = CO2Me; X = F) (II). II at 7.8 ppm postemergence showed 100% control of Barnyard grass, crab grass, and yellow foxtail and at 125 ppm no effect on cotton, soybeans, sugar beets, etc.

IT **82967-65-5**, Methyl 4-bromo-3-methoxy-2-pentenoate
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of fluorophenoxyphenoxypropionate herbicides)

RN 82967-65-5 CAPLUS

CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1987:477457 CAPLUS

DOCUMENT NUMBER: 107:77457

TITLE: Synthesis of 5-substituted 4-O-methyl tetramates

AUTHOR(S): Jones, Raymond C. F.; Bates, Andrew D.

CORPORATE SOURCE: Dep. Chem., Univ. Nottingham, Nottingham, NG7 2RD, UK

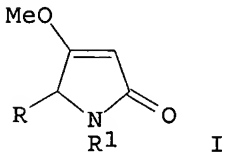
SOURCE: Tetrahedron Letters (1986), 27(43), 5285-8
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:77457

GI



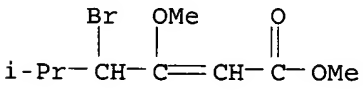
I

AB The title compds. I [R = H, Me, CHMe2, CHMeCO2Et, CH2CH2CO2Et, CH2CO2Et; R1 = H, Me, SiMe2CMe3, Si(CHMe2)3 2,4-(MeO)2C6H3CH2, CH2Ph, octyl] were prepared by enol etherification and bromination of RCH2COCH2CO2Me (R = H, Me2CH) and cyclization of RCHBrC(OMe):CHCO2Me with R1NH2 or by substitution on I (R = H) or I (R1 = H).

IT **109826-80-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and attempted aminolysis of)

RN 109826-80-4 CAPLUS

CN 2-Hexenoic acid, 4-bromo-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)

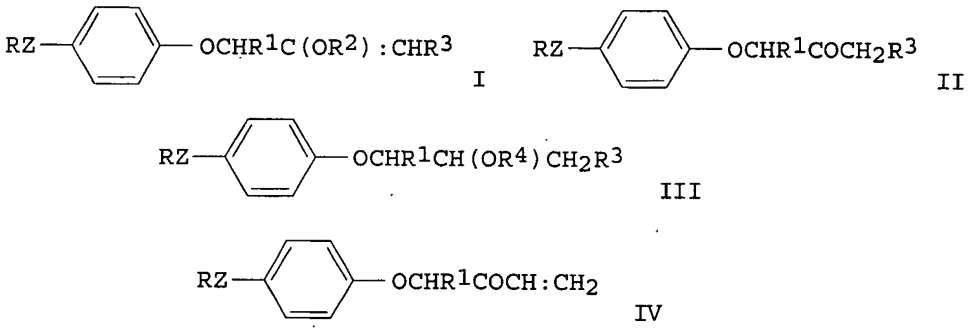


L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1986:181753 CAPLUS
DOCUMENT NUMBER: 104:181753
TITLE: 3-Alkoxy-4-substituted-phenoxy-2,3-unsaturated acid esters and derivatives and their use for the control of weeds
INVENTOR(S): Lee, Shy Fuh
PATENT ASSIGNEE(S): Zoecon Corp., USA
SOURCE: U.S., 16 pp. Cont.-in-part of U.S. Ser. No. 388,333, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4561882	A	19851231	US 1983-486750	19830420
US 4408076	A	19831004	US 1981-299413	19810904
ZA 8106717	A	19830126	ZA 1981-6717	19810928
US 4429167	A	19840131	US 1982-341736	19820122
US 4525205	A	19850625	US 1982-361161	19820323
US 4529438	A	19850716	US 1982-379609	19820519

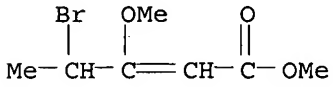
PRIORITY APPLN. INFO.:
US 1980-196795 19801014
US 1981-270938 19810605
US 1981-299413 19810904
US 1981-314639 19811026
US 1982-341736 19820122
US 1982-361161 19820323
US 1982-379609 19820519
US 1982-388333 19820614

OTHER SOURCE(S): CASREACT 104:181753
GI



AB The title compds. I, II, III, and IV [R = (un)substituted Ph, pyridinyl, quinolin-2-yl or quinoxalin-2-yl; R1 = H, alkyl; R2 = alkyl; R3 = CO2H, alkoxycarbonyl, alkylthiocarbonyl, N-substituted CONH, etc.; R4 = H, acyl, phenacyl, etc.; Z = O, S, NH, CH2] are prepared as herbicides. Thus, Et 4-[4-(3-chloro-5-trifluoromethyl-2-pyridyloxy)phenoxy]-3-acetoxypropionate (prepared by cetylation of the corresponding 3-hydroxy derivative), applied post-emergence, at 10 lb/acre, totally controlled green foxtail, barnyard grass, and other grasses.
IT **82967-65-5**

RL: BIOL (Biological study)
(condensation of, with (chlorotrifluoromethylphenoxy)phenol)
RN 82967-65-5 CAPLUS
CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1986:88443 CAPLUS
DOCUMENT NUMBER: 104:88443
TITLE: [(Pyridyloxy)phenoxy]alkanoic acid esters and derivatives
INVENTOR(S): Lee, Shy Fuh
PATENT ASSIGNEE(S): Zoecon Corp. , USA
SOURCE: U.S., 11 pp. Cont.-in-part of U.S. Ser. No. 361,161.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4529438	A	19850716	US 1982-379609	19820519
US 4408076	A	19831004	US 1981-299413	19810904
ZA 8106717	A	19830126	ZA 1981-6717	19810928
US 4429167	A	19840131	US 1982-341736	19820122
US 4525205	A	19850625	US 1982-361161	19820323
US 4561882	A	19851231	US 1983-486750	19830420

PRIORITY APPLN. INFO.:
US 1980-196795 19801014
US 1981-270938 19810605
US 1981-299413 19810904
US 1982-341736 19820122
US 1982-361161 19820323
US 1981-314639 19811026
US 1982-379609 19820519
US 1982-388333 19820614

OTHER SOURCE(S): CASREACT 104:88443
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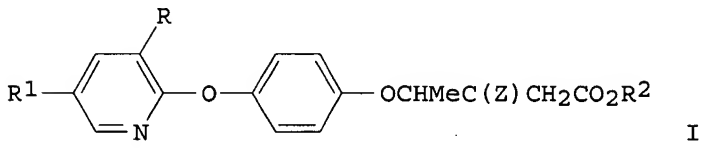


I

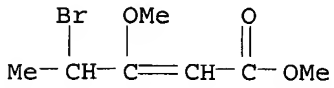
AB The title compds. I [R = H or Cl; R1 = Cl or CF3; R2 = alkyl; Z = O or (H,OH)] and phenoxyalkanoate analogs, useful for weed control, were prepared Thus, Et 4-[4-[5-(trifluoromethyl)-2-pyridyloxy]phenoxy]-3-oxopentanoate was reduced with NaBH4 to give Et 4-[4-[5-(trifluoromethyl)-2-pyridyloxy]phenoxy]-3-hydroxypentanoate [I; R = H, R1 = CF3, R2 = Et, Z = (H,OH)] (II). In postemergence test 10 lb II/acre gave complete control

of grasses and 57% control of broadleaves.

IT **82967-65-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and phenoxylation of)

RN 82967-65-5 CAPLUS

CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1985:422294 CAPLUS

DOCUMENT NUMBER: 103:22294

TITLE: 4-(2,6-Dialkylphenylamino)-3-alkoxy-2-butenoic acids and their use as herbicides

INVENTOR(S): Heather, James B.; Kanne, David B.

PATENT ASSIGNEE(S): Stauffer Chemical Co. , USA

SOURCE: U.S., 5 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4514215	A	19850430	US 1983-560621	19831212

PRIORITY APPLN. INFO.: US 1983-560621 19831212

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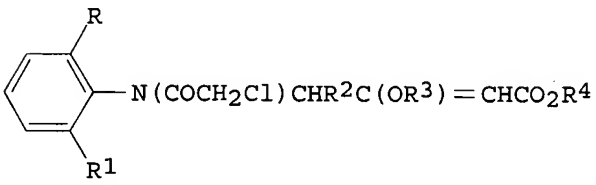


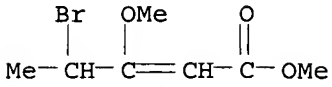
I

AB About 19 title compds. I (R = alkyl; R1 = C1-4 alkyl; R2 = H, Me; R3 = Me, Et; R4 = C1-4 alkyl), herbicides, were prepared Thus, heating 2,6-(Me2CH)MeC6H3NHCOCH2Cl and BrCH2C(OMe):CHCO2Me in KOH/acetone gave 66% I (R = CHMe2, R1 = R3 = R4 = Me, R2 = H) (II). At 4.48 kg/ha, II gave 90% injury to watergrass.

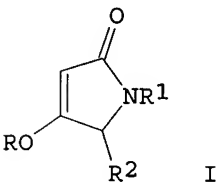
IT **82967-65-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (chloroacetyl)aniline derivative)

RN 82967-65-5 CAPLUS

CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)

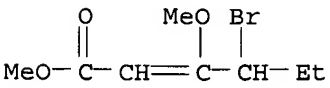


L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1984:490707 CAPLUS
DOCUMENT NUMBER: 101:90707
TITLE: Synthesis of 4-alkoxy-Δ3-pyrrolin-2-ones and tetramic acids
AUTHOR(S): Kochhar, Kanwarpal S.; Carson, Holly J.; Clouser, Kimberly A.; Elling, John W.; Gramens, Lauren A.; Parry, Judith L.; Sherman, Helayne L.; Braat, Kevin; Pinnick, Harold W.
CORPORATE SOURCE: Dep. Chem., Bucknell Univ., Lewisburg, PA, 17837, USA
SOURCE: Tetrahedron Letters (1984), 25(18), 1871-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB The alkoxypyrrolinones I (R = Me, Et; R1 = H, Me, Et, PhCH2, Me3C; R2 = H, Et) were prepared in 42-74% yields by cyclization of BrCHR2C(OR):CHCO2Me with R1NH2.
IT **91474-31-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, with amines, alkoxypyrrolinones from)
RN 91474-31-6 CAPLUS
CN 2-Hexenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1984:191589 CAPLUS
DOCUMENT NUMBER: 100:191589
TITLE: 3-Alkoxy-4-substituted-phenoxy-2,3-unsaturated acids, esters and derivatives
INVENTOR(S): Lee, Shy Fuh
PATENT ASSIGNEE(S): Zoecon Corp. , USA
SOURCE: U.S., 9 pp. Cont.-in-part of U.S. Ser. No. 299,413.
CODEN: USXXAM

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4429167	A	19840131	US 1982-341736	19820122
US 4408076	A	19831004	US 1981-299413	19810904
ZA 8106717	A	19830126	ZA 1981-6717	19810928
US 4525205	A	19850625	US 1982-361161	19820323
EP 85218	A1	19830810	EP 1982-301864	19820408
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4529438	A	19850716	US 1982-379609	19820519
US 4561882	A	19851231	US 1983-486750	19830420

PRIORITY APPLN. INFO.:

US 1980-196795	19801014
US 1981-270938	19810605
US 1981-299413	19810904
US 1981-314639	19811026
US 1982-341736	19820122
US 1982-361161	19820323
US 1982-379609	19820519
US 1982-388333	19820614

OTHER SOURCE(S): CASREACT 100:191589
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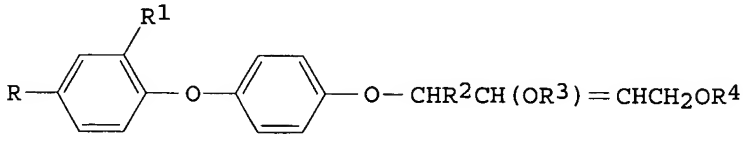
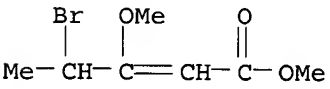


I

AB The title unsatd. compds. I (R, R1 = H, alkyl, alkoxycarbonyl, halomethyl, halomethoxy, NO2, cyano, Br, Cl, F; R2 = H, alkyl; R3 = alkyl; R4 = H, acyl) were prepared Thus, 4-[4-(F3C)C6H4O]C6H4OCHMeC(OMe):CHCO2Et in Et2O was treated with LiAlH4 at 0° to give I (R = F3C, R1 = R4 = H, R2 = R3 = Me) (II). In post-emergence tests 10 lb II/acre gave complete control of, e.g., green foxtail with little effect on soybeans.

IT **82967-65-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation by, of phenoxyphenols)

RN 82967-65-5 CAPLUS
CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1982:527249 CAPLUS
DOCUMENT NUMBER: 97:127249
TITLE: 3-Keto-4-(4'-aromatically substituted-phenoxy) compounds, their 3-alkylated enol and 2,3-hydrogenated derivatives and their use for weed control

INVENTOR(S): Lee, Shy Fuh
PATENT ASSIGNEE(S): Zoecon Corp. , USA
SOURCE: Eur. Pat. Appl., 37 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

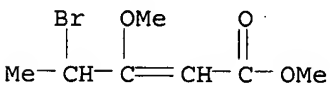
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 50019	A1	19820421	EP 1981-304703	19811009
EP 50019	B1	19860409		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4408076	A	19831004	US 1981-299413	19810904
ZA 8106717	A	19830126	ZA 1981-6717	19810928
AT 19056	E	19860415	AT 1981-304703	19811009

PRIORITY APPLN. INFO.: US 1980-196795 19801014
US 1981-270938 19810605
US 1981-299413 19810904
EP 1981-304703 19811009

AB p-RQC6H4OCHR1C(OR2):CHR3, p-RQC6H4OCHR1C(O)CH2R3, p-RQC6H4OCHR1CH(OH)CH2R3, and p-RQC6H4OCHR1C(O)CH:CH2 [R = (un)substituted Ph, 2-pyridyl, quinolinyl; Q = O, S, NH, CH2; R1 = H, lower alkyl; R2 = lower alkyl; R3 = CO2R4, C(O)SR4, CONR5R6, CH2X, CH2OR7 (R4 = H, (un)substituted alkyl; R5, R6 = H, (un)substituted alkyl; X = halo; R7 = H, acyl)], useful as herbicides, were prepared For example, reaction of 4-(2-chloro-4-trifluoromethylphenoxy)phenol with Et 4-bromo-3-methoxy-2-pentenoate in DMF in the presence of K2CO3 at 130° for 2 h gave Et 4-[4-(2-chloro-4-trifluoromethylphenoxy)phenoxy]-3-methoxy-2-pentenoate. The latter is treated with aqueous HClO4 to yield Et 4-[4-(2-chloro-4-trifluoromethylphenoxy)phenoxy]-3-oxopentanoate.

IT **82967-65-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (chlorotrifluoromethylphenoxy)phenol)

RN 82967-65-5 CAPLUS
CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	51.07	206.70
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-6.93	-6.93

FILE 'REGISTRY' ENTERED AT 09:17:40 ON 12 FEB 2004

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 FEB 2004 HIGHEST RN 649538-27-2
DICTIONARY FILE UPDATES: 11 FEB 2004 HIGHEST RN 649538-27-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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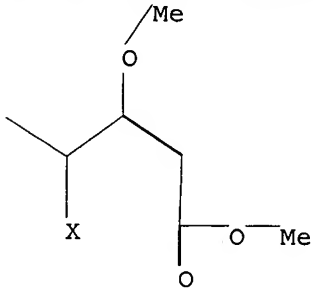

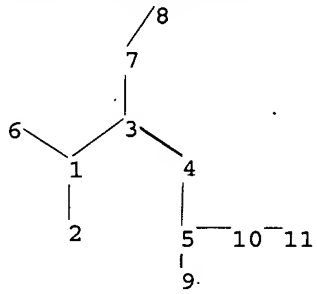

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exact bonds :
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Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS

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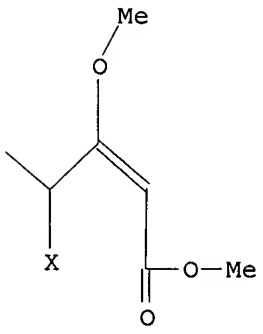

Structure attributes must be viewed using STN Express query preparation.

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100.0% PROCESSED      33 ITERATIONS                                0 ANSWERS
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FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          316 TO     1004
PROJECTED ANSWERS:               0 TO        0

L6             0 SEA SSS SAM L5

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SEARCH TIME: 00.00.01

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00      -6.93

FILE 'CAPLUS' ENTERED AT 09:18:12 ON 12 FEB 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 12 Feb 2004 VOL 140 ISS 7
FILE LAST UPDATED: 11 Feb 2004 (20040211/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L8 14 L7

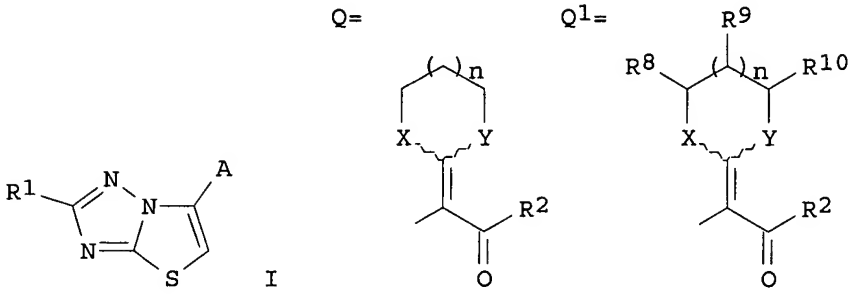
=> d l8 ibib abs hitstr tot

L8 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:977822 CAPLUS
DOCUMENT NUMBER: 138:55969
TITLE: Preparation of thiazolotriazole derivatives, intermediates thereof, and herbicides containing the derivatives as the active ingredient
INVENTOR(S): Yano, Tomoyuki; Yoshii, Tomoko; Ito, Hiroshi; Ueda, Takuya
PATENT ASSIGNEE(S): Kaken Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 120 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102809	A1	20021227	WO 2002-JP5778	20020611

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 2001-178182 A 20010613
OTHER SOURCE(S): MARPAT 138:55969
GI



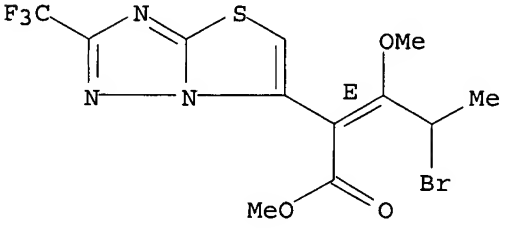
AB Thiazolotriazole derivs. represented by the general formula (I) or salts thereof [wherein R1 = H, halo, C1-6 alkyl or haloalkyl; A = Q, Q1 (wherein X = O, CHR3, NR4; Y = O, S; R2 = ZR5, NR6R7; n = 0-3; Z = O, S; R3 = H, halo; R4 = H, C1-4 alkyl; R5, R6, R7 = H, each optionally substituted C1-12 alkyl, C3-8 cycloalkyl, C3-12 alkenyl, C3-8 alkynyl, Ph, or C7-11 aralkyl; or R6 and R7 together with the attached N from a heterocyclyl group; R8, R9, R10 = H, C1-4 alkyl, halo)] are prepared Disclosed are herbicides containing the thiazolotriazole derivs. I or the salts as the active ingredients, in particular herbicides for rice paddy field. These thiazolotriazole derivs. exhibit excellent herbicidal activity against weeds without doing chemical damage to crops including rice plants, when applied even in a lowered dosage. Thus, a solution of 4.06 g (2-trifluoromethylthiazolo[3,2-b]triazol-5-yl)acetic acid amyl ester in 5 mL DMF was added to a suspension of 1.26 g (60 weight%, 31.5 mmol) in 15 mL DMF under Ar with ice-cooling and stirred for 15 min, followed by adding a solution of 1.5 mL 4-chlorobutyryl chloride in 5 mL DMF, and the resulting mixture was stirred at 0° for 2 h to give (E)-(2-trifluoromethylthiazolo[3,2-b]triazol-5-yl)-2-(tetrahydrofuran-2-ylidene)acetic acid amyl ester (II). II at 100 g/ha postemergence controlled 100% Echinochloa crus-galli, Cyperus difformis, broad leaved weed, Monochoria vaginalis, and Scirpus juncoides in flooded paddy soil vs. 0.1-90.0% for Pyrazolynate and gave no damage to rice seedlings.

IT **479253-48-0P**
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of thiazolotriazole derivs. as herbicides for rice paddy)

RN 479253-48-0 CAPLUS

CN Thiazolo[3,2-b][1,2,4]triazole-6-acetic acid, α-(2-bromo-1-methoxypropylidene)-2-(trifluoromethyl)-, methyl ester, (αE)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



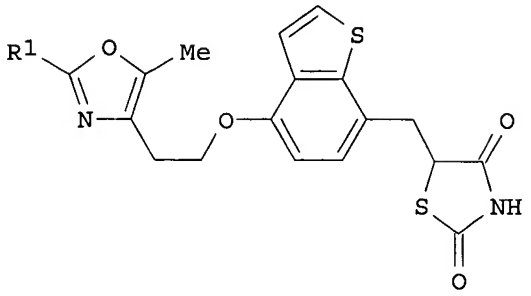
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:780884 CAPLUS
DOCUMENT NUMBER: 135:331416
TITLE: Preparation of thiazolidinedione derivatives and intermediates
INVENTOR(S): Scalone, Michelangelo
PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
SOURCE: PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001079202	A1	20011025	WO 2001-EP3802	20010404
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CO, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2001049445	A1	20011206	US 2001-814907	20010322
US 6531609	B2	20030311		
EP 1282619	A1	20030212	EP 2001-931561	20010404
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003531146	T2	20031021	JP 2001-576801	20010404
US 2003092916	A1	20030515	US 2002-288316	20021105
US 6620941	B2	20030916		
US 2004024222	A1	20040205	US 2003-634395	20030805

PRIORITY APPLN. INFO.:
EP 2000-108303 A 20000414
US 2001-814907 A3 20010322
WO 2001-EP3802 W 20010404
US 2002-288316 A3 20021105

OTHER SOURCE(S): CASREACT 135:331416; MARPAT 135:331416
GI



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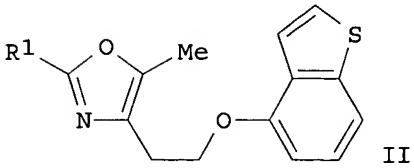
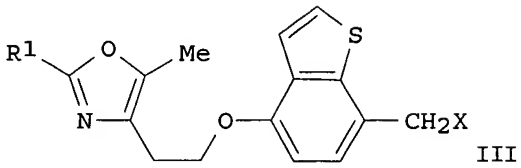


II



III

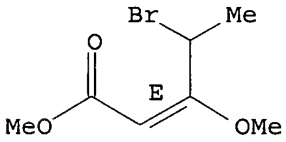
AB The title compds. [I; R1 = (hetero)aryl] and their corresponding salts, e.g., the sodium salts, which are pharmaceutically active substances in the treatment of diabetes (no biol. data) were prepared via bromomethylation or chloromethylation of II and subsequent reaction of III [X = Cl, Br] with 2,4-thiazolidinedione.

IT **369631-82-3P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of thiazolidinedione derivs. and intermediates)

RN 369631-82-3 CAPLUS

CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



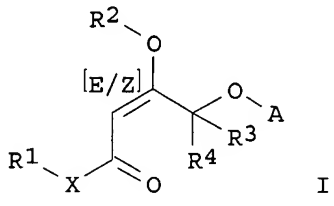
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:268474 CAPLUS
DOCUMENT NUMBER: 128:321451
TITLE: Preparation of alkenecarboxylic acid derivatives as pesticides
INVENTOR(S): Muller, Urs
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Muller, Urs
SOURCE: PCT Int. Appl., 104 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

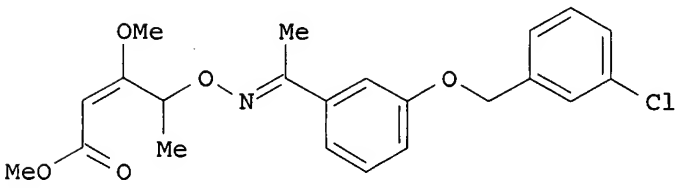
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9817631	A2	19980430	WO 1997-EP5857	19971023
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9868116	A1	19980515	AU 1998-68116	19971023
PRIORITY APPLN. INFO.:			CH 1996-2599	19961023
			WO 1997-EP5857	19971023

OTHER SOURCE(S): MARPAT 128:321451

GI



I



II

AB The title compds. [I; R1 = H, C1-5 alkyl, C3-6 alkenyl, etc.; R2 = C1-5 alkyl, C1-3 alkoxy-C1-5 alkyl, C3-6 alkenyl, etc.; R3, R4 = H, C1-5 alkyl, C1-3 alkoxy-C1-5 alkyl; A = ketimino, aldimino; X = O, NH, NR9 (wherein R9 = H, C1-5 alkyl)] and their possible isomers and mixts. of isomers, having plant-protecting properties and are suitable for the protection of plants against infestation by phytopathogenic microorganisms, were prepared Thus, treatment of 3-(3-chlorobenzyloxy)acetophenone oxime with NaH in DMF followed by the addition of 4-chloro-3-methoxypent-2-enecarboxylic acid Me ester in DMF and KI afforded the title compound [E]-II. Compds. I showed a good action against, e.g., Phytophthora infestans on tomatoes.

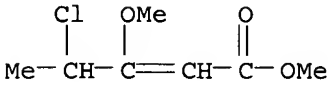
IT **206653-16-9P 206653-44-3P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of alkenecarboxylic acid derivs. as pesticides)

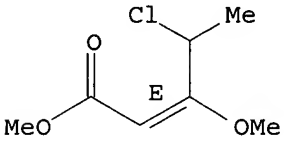
RN 206653-16-9 CAPLUS

CN 2-Pentenoic acid, 4-chloro-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



RN 206653-44-3 CAPLUS
CN 2-Pentenoic acid, 4-chloro-3-methoxy-, methyl ester, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



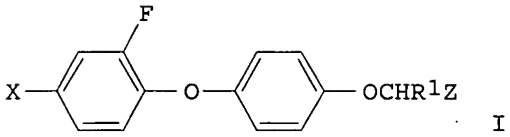
L8 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:533787 CAPLUS
DOCUMENT NUMBER: 111:133787
TITLE: 2-[4-(2-Fluorophenoxy)phenoxy]propionates and analogs thereof as herbicides
INVENTOR(S): Rogers, Richard B.; Gerwick, B. Clifford, III
PATENT ASSIGNEE(S): Dow Chemical Co., USA
SOURCE: U.S., 25 pp. Cont.-in-part of U.S. 4,550,192.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4725683	A	19880216	US 1985-765401	19850812
US 4550192	A	19851029	US 1983-528711	19830901
AU 8432306	A1	19860306	AU 1984-32306	19840823
AU 569540	B2	19880204		
ZA 8406674	A	19860430	ZA 1984-6674	19840827
CA 1248943	A1	19890117	CA 1984-462134	19840830
DK 8404187	A	19850302	DK 1984-4187	19840831
GB 2146022	A1	19850411	GB 1984-22059	19840831
GB 2146022	B2	19871223		
HU 35472	O	19850729	HU 1984-3298	19840831
HU 196689	B	19890130		
BR 8404371	A	19850730	BR 1984-4371	19840831
RO 89691	B3	19860730	RO 1984-115607	19840831
SU 1628841	A3	19910215	SU 1984-3785909	19840831
JP 60166638	A2	19850829	JP 1984-183612	19840901
JP 03039482	B4	19910614		
US 4808750	A	19890228	US 1986-885360	19860714
GB 2185014	A1	19870708	GB 1986-21934	19860911
GB 2185014	B2	19871223		
AU 8662745	A1	19870108	AU 1986-62745	19860916
AU 587499	B2	19890817		
CA 1257296	A2	19890711	CA 1988-556570	19880114
JP 01279856	A2	19891110	JP 1989-81643	19890403
JP 03246254	A2	19911101	JP 1990-266151	19901003

PRIORITY APPLN. INFO.: US 1983-528711 19830901

CA 1984-462134 19840830
GB 1984-22059 19840831
US 1985-765401 19850812

OTHER SOURCE(S): CASREACT 111:133787; MARPAT 111:133787
GI



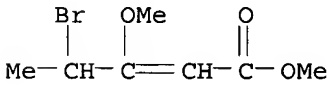
I

AB Title compds. I (R1 = Me; Z = CO2H; X = Cl, CF3, iodo, Br, F, OCF3, CF2Cl, CHF2, OCF2CCl2H), their derivs. such as amides, esters, and salts, or their analogs I [R1 = C1-3 alkyl; Z = groups which can be converted to carboxy moieties in plants, e.g. cyano, 5-(1 or 2H)-tetrazolyl, alkoxythiocarbonyl, CH2OC(S)NR2CN where R2 = alkyl, (CH2)2CN, and (CH2)2CO2R2] are prepared Decomposition of 2,5-F(F3C)C6H3N2+BF4- (preparation given) in 10% NaOH at 200°-220° gave 22.5% 3,4-F2 C6H3CF3, which was treated with 4-HOC6H4OCHMeCO2Me in DMSO in the presence of K2CO3 at 100-110° to afford 55.9% I (R1 = Me; Z = CO2Me; X = F) (II). II at 7.8 ppm postemergence showed 100% control of Barnyard grass, crab grass, and yellow foxtail and at 125 ppm no effect on cotton, soybeans, sugar beets, etc.

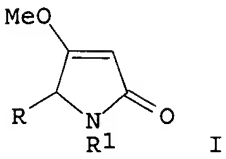
IT **82967-65-5**, Methyl 4-bromo-3-methoxy-2-pentenoate
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of fluorophenoxyphenoxypropionate herbicides)

RN 82967-65-5 CAPLUS

CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1987:477457 CAPLUS
DOCUMENT NUMBER: 107:77457
TITLE: Synthesis of 5-substituted 4-O-methyl tetramates
AUTHOR(S): Jones, Raymond C. F.; Bates, Andrew D.
CORPORATE SOURCE: Dep. Chem., Univ. Nottingham, Nottingham, NG7 2RD, UK
SOURCE: Tetrahedron Letters (1986), 27(43), 5285-8
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 107:77457
GI



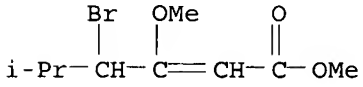
I

AB The title compds. I [R = H, Me, CHMe2, CHMeCO2Et, CH2CH2CO2Et, CH2CO2Et; R1 = H, Me, SiMe2CMe3, Si(CHMe2)3 2,4-(MeO)2C6H3CH2, CH2Ph, octyl] were prepared by enol etherification and bromination of RCH2COCH2CO2Me (R = H, Me2CH) and cyclization of RCHBrC(OMe):CHCO2Me with R1NH2 or by substitution on I (R = H) or I (R1 = H).

IT **109826-80-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and attempted aminolysis of)

RN 109826-80-4 CAPLUS

CN 2-Hexenoic acid, 4-bromo-3-methoxy-5-methyl-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1986:181753 CAPLUS

DOCUMENT NUMBER: 104:181753

TITLE: 3-Alkoxy-4-substituted-phenoxy-2,3-unsaturated acid esters and derivatives and their use for the control of weeds

INVENTOR(S): Lee, Shy Fuh

PATENT ASSIGNEE(S): Zoecon Corp., USA

SOURCE: U.S., 16 pp. Cont.-in-part of U.S. Ser. No. 388,333, abandoned.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4561882	A	19851231	US 1983-486750	19830420
US 4408076	A	19831004	US 1981-299413	19810904
ZA 8106717	A	19830126	ZA 1981-6717	19810928
US 4429167	A	19840131	US 1982-341736	19820122
US 4525205	A	19850625	US 1982-361161	19820323
US 4529438	A	19850716	US 1982-379609	19820519

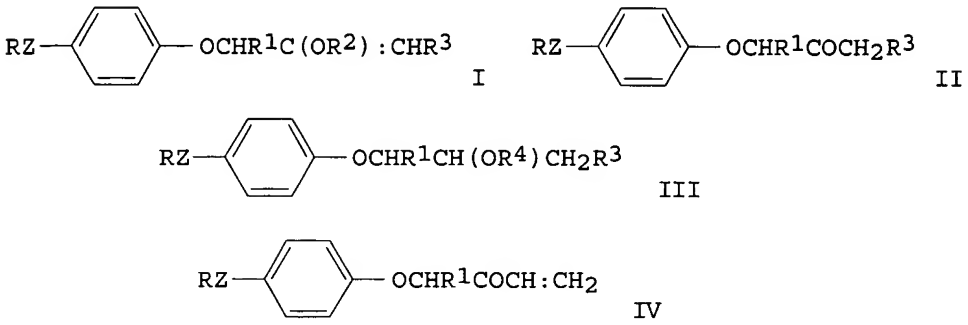
PRIORITY APPLN. INFO.:

US 1980-196795	19801014
US 1981-270938	19810605
US 1981-299413	19810904
US 1981-314639	19811026
US 1982-341736	19820122
US 1982-361161	19820323

US 1982-379609 19820519
US 1982-388333 19820614

OTHER SOURCE(S): CASREACT 104:181753

GI



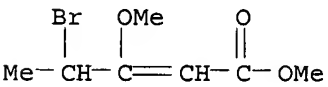
I II III IV

AB The title compds. I, II, III, and IV [R = (un)substituted Ph, pyridinyl, quinolin-2-yl or quinoxalin-2-yl; R1 = H, alkyl; R2 = alkyl; R3 = CO2H, alkoxycarbonyl, alkylthiocarbonyl, N-substituted CONH, etc.; R4 = H, acyl, phenacyl, etc.; Z = O, S, NH, CH2] are prepared as herbicides. Thus, Et 4-[4-(3-chloro-5-trifluoromethyl-2-pyridyloxy)phenoxy]-3-acetoxypropionate (prepared by cetylation of the corresponding 3-hydroxy derivative), applied post-emergence, at 10 lb/acre, totally controlled green foxtail, barnyard grass, and other grasses.

IT **82967-65-5**
RL: BIOL (Biological study)
(condensation of, with (chlorotrifluoromethylphenoxy)phenol)

RN 82967-65-5 CAPLUS

CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1986:88443 CAPLUS
DOCUMENT NUMBER: 104:88443
TITLE: [(Pyridyloxy)phenoxy]alkanoic acid esters and derivatives
INVENTOR(S): Lee, Shy Fuh
PATENT ASSIGNEE(S): Zoecon Corp. , USA
SOURCE: U.S., 11 pp. Cont.-in-part of U.S. Ser. No. 361,161. CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

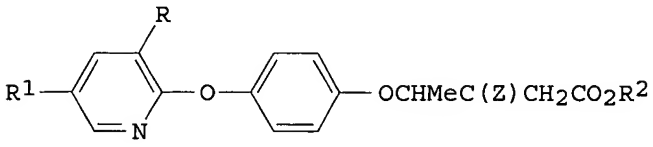
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4529438	A	19850716	US 1982-379609	19820519
US 4408076	A	19831004	US 1981-299413	19810904
ZA 8106717	A	19830126	ZA 1981-6717	19810928

US 4429167	A	19840131	US 1982-341736	19820122
US 4525205	A	19850625	US 1982-361161	19820323
US 4561882	A	19851231	US 1983-486750	19830420

PRIORITY APPLN. INFO.:
US 1980-196795 19801014
US 1981-270938 19810605
US 1981-299413 19810904
US 1982-341736 19820122
US 1982-361161 19820323
US 1981-314639 19811026
US 1982-379609 19820519
US 1982-388333 19820614

OTHER SOURCE(S): CASREACT 104:88443

GI



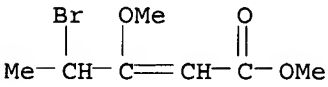
I

AB The title compds. I [R = H or Cl; R1 = Cl or CF3; R2 = alkyl; Z = O or (H,OH)] and phenoxyalkanoate analogs, useful for weed control, were prepared Thus, Et 4-[4-[5-(trifluoromethyl)-2-pyridyloxy]phenoxy]-3-oxopentanoate was reduced with NaBH4 to give Et 4-[4-[5-(trifluoromethyl)-2-pyridyloxy]phenoxy]-3-hydroxypentanoate [I; R = H, R1 = CF3, R2 = Et, Z = (H,OH)] (II). In postemergence test 10 lb II/acre gave complete control of grasses and 57% control of broadleaves.

IT **82967-65-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and phenoxylation of)

RN 82967-65-5 CAPLUS

CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1985:422294 CAPLUS

DOCUMENT NUMBER: 103:22294

TITLE: 4-(2,6-Dialkylphenylamino)-3-alkoxy-2-butenoic acids and their use as herbicides

INVENTOR(S): Heather, James B.; Kanne, David B.

PATENT ASSIGNEE(S): Stauffer Chemical Co. , USA

SOURCE: U.S., 5 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

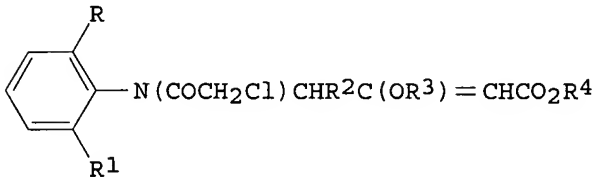
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

US 4514215 A 19850430 US 1983-560621 19831212
PRIORITY APPLN. INFO.: US 1983-560621 19831212
GI



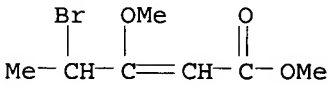
I

AB About 19 title compds. I (R = alkyl; R1 = C1-4 alkyl; R2 = H, Me; R3 = Me, Et; R4 = C1-4 alkyl), herbicides, were prepared Thus, heating 2,6-(Me2CH)MeC6H3NHCOCH2Cl and BrCH2C(OMe):CHCO2Me in KOH/acetone gave 66% I (R = CHMe2, R1 = R3 = R4 = Me, R2 = H) (II). At 4.48 kg/ha, II gave 90% injury to watergrass.

IT **82967-65-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (chloroacetyl)aniline derivative)

RN 82967-65-5 CAPLUS

CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1984:490707 CAPLUS

DOCUMENT NUMBER: 101:90707

TITLE: Synthesis of 4-alkoxy-Δ3-pyrrolin-2-ones and tetramic acids

AUTHOR(S): Kochhar, Kanwarpal S.; Carson, Holly J.; Clouser, Kimberly A.; Elling, John W.; Gramens, Lauren A.; Parry, Judith L.; Sherman, Helayne L.; Braat, Kevin; Pinnick, Harold W.

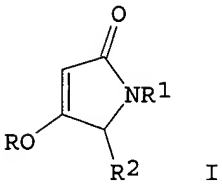
CORPORATE SOURCE: Dep. Chem., Bucknell Univ., Lewisburg, PA, 17837, USA

SOURCE: Tetrahedron Letters (1984), 25(18), 1871-4
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



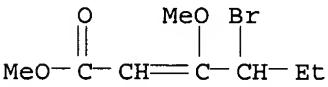
I

AB The alkoxypyrrolinones I (R = Me, Et; R1 = H, Me, Et, PhCH2, Me3C; R2 = H, Et) were prepared in 42-74% yields by cyclization of BrCHR2C(OR):CHCO2Me with R1NH2.

IT **91474-31-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, with amines, alkoxypyrrolinones from)

RN 91474-31-6 CAPLUS

CN 2-Hexenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1984:191589 CAPLUS

DOCUMENT NUMBER: 100:191589

TITLE: 3-Alkoxy-4-substituted-phenoxy-2,3-unsaturated acids, esters and derivatives

INVENTOR(S): Lee, Shy Fuh

PATENT ASSIGNEE(S): Zoecon Corp. , USA

SOURCE: U.S., 9 pp. Cont.-in-part of U.S. Ser. No. 299,413.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4429167	A	19840131	US 1982-341736	19820122
US 4408076	A	19831004	US 1981-299413	19810904
ZA 8106717	A	19830126	ZA 1981-6717	19810928
US 4525205	A	19850625	US 1982-361161	19820323
EP 85218	A1	19830810	EP 1982-301864	19820408
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4529438	A	19850716	US 1982-379609	19820519
US 4561882	A	19851231	US 1983-486750	19830420

PRIORITY APPLN. INFO.:

US 1980-196795	19801014
US 1981-270938	19810605
US 1981-299413	19810904
US 1981-314639	19811026
US 1982-341736	19820122
US 1982-361161	19820323
US 1982-379609	19820519
US 1982-388333	19820614

OTHER SOURCE(S): CASREACT 100:191589

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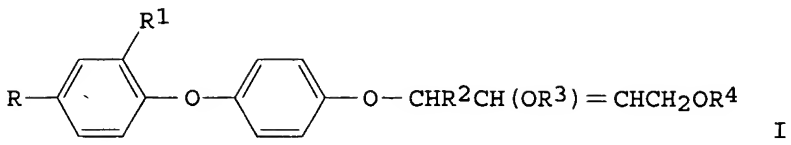


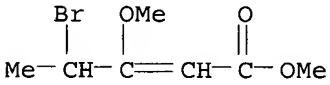
I

AB The title unsatd. compds. I (R, R1 = H, alkyl, alkoxycarbonyl, halomethyl, halomethoxy, NO2, cyano, Br, Cl, F; R2 = H, alkyl; R3 = alkyl; R4 = H, acyl) were prepared Thus, 4-[4-(F3C)C6H4O]C6H4OCHMeC(OMe):CHCO2Et in Et2O was treated with LiAlH4 at 0° to give I (R = F3C, R1 = R4 = H, R2 = R3 = Me) (II). In post-emergence tests 10 lb II/acre gave complete control of, e.g., green foxtail with little effect on soybeans.

IT **82967-65-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation by, of phenoxyphenols)

RN 82967-65-5 CAPLUS

CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1983:142919 CAPLUS

DOCUMENT NUMBER: 98:142919

TITLE: Haloacrylic acids. XIX. Synthetic transformations of dimethyl perfluoro-4-methyl-2-pentenedioate

AUTHOR(S): Svoboda, Jiri; Paleta, Oldrich; Dedek, Vaclav

CORPORATE SOURCE: Dep. Org. Chem., Prague Inst. Chem. Technol., Prague, 166 28/6, Czech.

SOURCE: Collection of Czechoslovak Chemical Communications (1982), 47(12), 3418-23
CODEN: CCCCAK; ISSN: 0366-547X

DOCUMENT TYPE: Journal

LANGUAGE: English

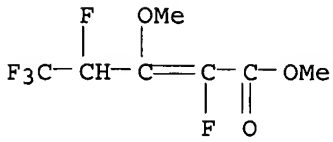
OTHER SOURCE(S): CASREACT 98:142919

AB The photochem. reaction of MeO2CCF(CF3)CF:CFCO2Me (I) with Cl gave MeO2CCF(CF3)CFClCFClCO2Me (II), but MeOH did not add across the double bond of I. I was treated with NaOMe and MeOH to give CF3CHFC(OMe):CFCO2Me. The saponification of II yielded K+ - O2CCF(CF3)CFClCFClCO2Me.

IT **85146-13-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 85146-13-0 CAPLUS

CN 2-Pentenoic acid, 2,4,5,5,5-pentafluoro-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1982:527249 CAPLUS
DOCUMENT NUMBER: 97:127249
TITLE: 3-Keto-4-(4'-aromatically substituted-phenoxy) compounds, their 3-alkylated enol and 2,3-hydrogenated derivatives and their use for weed control
INVENTOR(S): Lee, Shy Fuh
PATENT ASSIGNEE(S): Zoecon Corp. , USA
SOURCE: Eur. Pat. Appl., 37 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

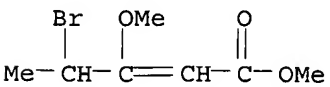
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 50019	A1	19820421	EP 1981-304703	19811009
EP 50019	B1	19860409		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4408076	A	19831004	US 1981-299413	19810904
ZA 8106717	A	19830126	ZA 1981-6717	19810928
AT 19056	E	19860415	AT 1981-304703	19811009

PRIORITY APPLN. INFO.:
US 1980-196795 19801014
US 1981-270938 19810605
US 1981-299413 19810904
EP 1981-304703 19811009

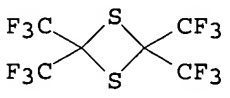
AB p-RQC6H4OCHR1C(OR2):CHR3, p-RQC6H4OCHR1C(O)CH2R3, p-RQC6H4OCHR1CH(OH)CH2R3, and p-RQC6H4OCHR1C(O)CH:CH2 [R = (un)substituted Ph, 2-pyridyl, quinolinyl; Q = O, S, NH, CH2; R1 = H, lower alkyl; R2 = lower alkyl; R3 = CO2R4, C(O)SR4, CONR5R6, CH2X, CH2OR7 (R4 = H, (un)substituted alkyl; R5, R6 = H, (un)substituted alkyl; X = halo; R7 = H, acyl)], useful as herbicides, were prepared For example, reaction of 4-(2-chloro-4-trifluoromethylphenoxy)phenol with Et 4-bromo-3-methoxy-2-pentenoate in DMF in the presence of K2CO3 at 130° for 2 h gave Et 4-[4-(2-chloro-4-trifluoromethylphenoxy)phenoxy]-3-methoxy-2-pentenoate. The latter is treated with aqueous HClO4 to yield Et 4-[4-(2-chloro-4-trifluoromethylphenoxy)phenoxy]-3-oxopentanoate.

IT **82967-65-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (chlorotrifluoromethylphenoxy)phenol)

RN 82967-65-5 CAPLUS
CN 2-Pentenoic acid, 4-bromo-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1981:65061 CAPLUS
DOCUMENT NUMBER: 94:65061
TITLE: Fluoroketenes. 11. Synthesis and chemistry of a perfluoroacylketene and related compounds containing a perfluoroisopropyl sulfide group
AUTHOR(S): England, David C.
CORPORATE SOURCE: Cent. Res. Dev. Dep., E. I. du Pont de Nemours and Co., Wilmington, DE, 19898, USA
SOURCE: Journal of Organic Chemistry (1981), 46(1), 153-7
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 94:65061
GI



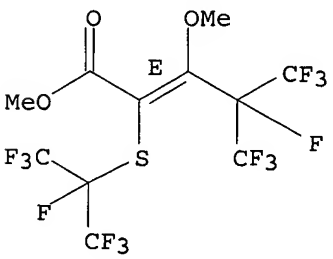
I

AB The dimer (I) of hexafluorothioacetone and (F3C)2CFSC(CF3):CFCF(CF3)2 (II) were prepared in good yield from hexafluoropropene (III) and S in standard laboratory equipment slightly below atmospheric pressure. II is structurally similar to a dimer of III from which a vinyl ketone and an acylketene were prepared Preparation of the related vinyl ketone (F3C)2CFSC(:CF2)COCF(CF3)2 and acylketene (F3C)2CFSC(:C:O)COCF(CF3)2 (IV) containing the perfluoroisopropyl sulfide group are reported here as well as some chemical of IV. This chemical is analogous to that of a previously prepared acylketene F3CC(:C:O)COC2F5 in its reactions with H2O, BzNH2, and HN3 in Diels-Alder addition reactions to dienophiles containing C:C, C.tplbond.C, C:, C.tplbond.N, and C:O unsatn. and in electrophilic substitution reactions with aromatic compds. However, different behavior was observed in reactions involving fluoride ion, DMF, Me2NAc, and (Me2N)2CO.

IT **75781-89-4P 75782-20-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with sulfur trioxide)

RN 75781-89-4 CAPLUS
CN 2-Pentenoic acid, 4,5,5,5-tetrafluoro-3-methoxy-2-[[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]thio]-4-(trifluoromethyl)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

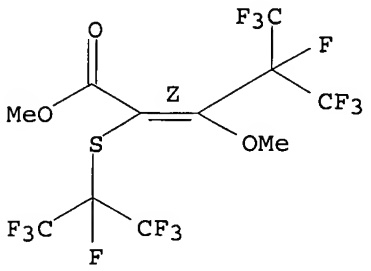
Double bond geometry as shown.



RN 75782-20-6 CAPLUS

CN 2-Pentenoic acid, 4,5,5,5-tetrafluoro-3-methoxy-2-[[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]thio]-4-(trifluoromethyl)-, methyl ester, (Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



L8 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1979:456370 CAPLUS
DOCUMENT NUMBER: 91:56370
TITLE: 1-Hydroperfluoroalken-(1)-yl carboxylic acid derivatives and their enol ethers and enol thioethers
INVENTOR(S): Bathelt, Heinrich
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 20 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

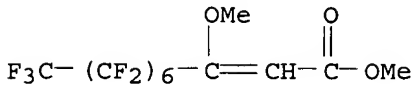
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2742685	A1	19790405	DE 1977-2742685	19770922

PRIORITY APPLN. INFO.: DE 1977-2742685 19770922

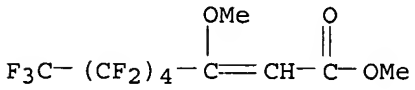
AB RC(ZR1):CHCO2R3 [R = C1-11 perfluoroalkyl; R1 = alkyl, F3C(CF2)a(CH2)b (a is an integer of 0-16, b is an integer of 1-4), Ph, (CH2CH2O)nR2, (CH2CHMeO)nR2, (CHMeCH2O)nR2 (n = 1-50; R2 = H, alkyl); R3 = H, NH4+, alkali metal, alkyl; Z = O, S] and RCF:CHCO2R3 (R and R3 the same as above) were prepared Thus, dropping a 30% NaOMe solution into C8F17CH2CO2Me in MeOH over 20 min with ice cooling and stirring the mixture 1 h at room temperature gave 94.2% C7F15C(OMe):CHCO2Me. Et3N was added to boiling C8F17CH2CO2Me in CCl2FCF2Cl over 10 min and the mixture was refluxed 10 h to give 95% C7F15CF:CHCO2Me which was mixed with EtSH in CCl4. Treating this solution with Et3N at room temperature and refluxing the mixture 8 h gave 91% C7F15C(SEt):CHCO2Me.

IT **70887-76-2P 70887-77-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 70887-76-2 CAPLUS
CN 2-Decenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-pentadecafluoro-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



RN 70887-77-3 CAPLUS
CN 2-Octenoic acid, 4,4,5,5,6,6,7,7,8,8,8-undecafluoro-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	70.10	432.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-9.70	-16.63

FILE 'REGISTRY' ENTERED AT 09:22:48 ON 12 FEB 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 FEB 2004 HIGHEST RN 649538-27-2
DICTIONARY FILE UPDATES: 11 FEB 2004 HIGHEST RN 649538-27-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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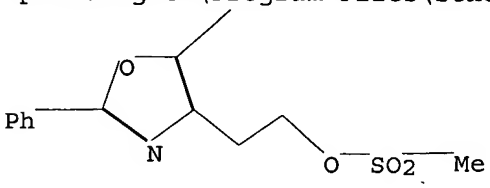

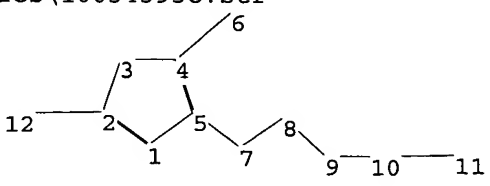

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ring bonds :
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exact/norm bonds :
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exact bonds :
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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS

L9 STRUCTURE UPLOADED

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L9 HAS NO ANSWERS
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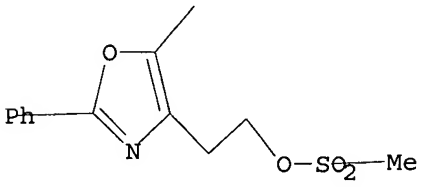

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 6 TO 266
PROJECTED ANSWERS: 0 TO 0

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=> s l9 sss full
FULL SEARCH INITIATED 09:23:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 86 TO ITERATE

100.0% PROCESSED 86 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

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=> FIL CAPLUS
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FULL ESTIMATED COST                                   155.42     587.64

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                     0.00     -16.63

FILE 'CAPLUS' ENTERED AT 09:23:29 ON 12 FEB 2004
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FILE COVERS 1907 - 12 Feb 2004  VOL 140 ISS 7
FILE LAST UPDATED: 11 Feb 2004  (20040211/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> d his

     (FILE 'HOME' ENTERED AT 09:11:53 ON 12 FEB 2004)

     FILE 'REGISTRY' ENTERED AT 09:12:23 ON 12 FEB 2004
L1                STRUCTURE UPLOADED
L2              0 S L1
L3              5 S L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 09:12:49 ON 12 FEB 2004
L4             10 S L3

     FILE 'REGISTRY' ENTERED AT 09:17:40 ON 12 FEB 2004
L5                STRUCTURE UPLOADED
L6              0 S L5
L7             12 S L5 SSS FULL

     FILE 'CAPLUS' ENTERED AT 09:18:12 ON 12 FEB 2004
L8             14 S L7

     FILE 'REGISTRY' ENTERED AT 09:22:48 ON 12 FEB 2004
L9                STRUCTURE UPLOADED
L10             0 S L9
L11             2 S L9 SSS FULL

     FILE 'CAPLUS' ENTERED AT 09:23:29 ON 12 FEB 2004
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L12          20 L11

=> s l9
   REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.



SAMPLE SEARCH INITIATED 09:24:06 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      6 TO ITERATE

100.0% PROCESSED       6 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            6 TO      266
PROJECTED ANSWERS:               0 TO        0

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L14          0 L13

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L15         14 L11/P

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L17          0 L15 AND BROMINATING

=> d his

     (FILE 'HOME' ENTERED AT 09:11:53 ON 12 FEB 2004)

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L1               STRUCTURE UPLOADED
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     FILE 'CAPLUS' ENTERED AT 09:12:49 ON 12 FEB 2004
L4           10 S L3

     FILE 'REGISTRY' ENTERED AT 09:17:40 ON 12 FEB 2004
L5               STRUCTURE UPLOADED
L6            0 S L5
L7           12 S L5 SSS FULL

     FILE 'CAPLUS' ENTERED AT 09:18:12 ON 12 FEB 2004
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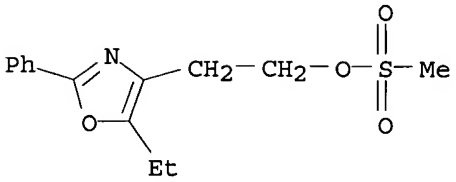

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:640857 CAPLUS
DOCUMENT NUMBER: 131:243264
TITLE: Process for producing isooxazolidinedione compound from aspartic acid β-methyl ester
INVENTOR(S): Ando, Koji; Suzuki, Masanobu
PATENT ASSIGNEE(S): Japan Tobacco Inc., Japan
SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9950267	A1	19991007	WO 1999-JP1434	19990319
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9928548	A1	19991018	AU 1999-28548	19990319
AU 738200	B2	20010913		
EP 992503	A1	20000412	EP 1999-909293	19990319
EP 992503	B1	20040204		
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BR 9906312	A	20000711	BR 1999-6312	19990319
NZ 501896	A	20001124	NZ 1999-501896	19990319
RU 2180663	C2	20020320	RU 1999-128102	19990319
CA 2291620	C	20031007	CA 1999-2291620	19990319
CN 1130361	B	20031210	CN 1999-800858	19990319
EP 1375499	A1	20040102	EP 2003-20537	19990319
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EP 1384722	A1	20040128	EP 2003-20538	19990319
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JP 11343288	A2	19991214	JP 1999-84792	19990326
JP 3163295	B2	20010508		
JP 2000143596	A2	20000523	JP 1999-360189	19990326
JP 2000143642	A2	20000526	JP 1999-360198	19990326

JP 3322860	B2	20020909			
SG 73627	A1	20000620	SG 1999-1563		19990330
NO 9905851	A	19991129	NO 1999-5851		19991129
US 6248897	B1	20010619	US 1999-424711		19991129
ZA 9907705	A	20000627	ZA 1999-7705		19991215
JP 2000143645	A2	20000526	JP 1999-360192		19991220
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JP 2000143643	A2	20000526	JP 1999-360203		19991220
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US 2001039352	A1	20011108	US 2001-839215		20010423
US 6444827	B2	20020903			
US 2002188133	A1	20021212	US 2002-198171		20020719
NO 2002004058	A	19991129	NO 2002-4058		20020826
NO 2002004059	A	19991129	NO 2002-4059		20020826
NO 2002004060	A	19991129	NO 2002-4060		20020826
PRIORITY APPLN. INFO.:			JP 1998-104098	A	19980330
			EP 1999-909293	A3	19990319
			WO 1999-JP1434	W	19990319
			JP 1999-84792	A3	19990326
			US 1999-424711	A3	19991129
			US 2001-839215	A3	20010423

OTHER SOURCE(S): CASREACT 131:243264; MARPAT 131:243264

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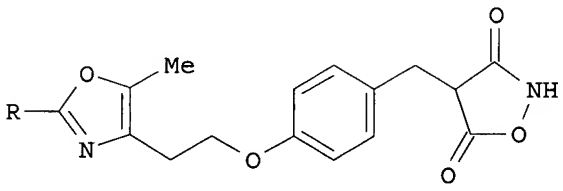

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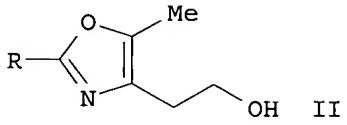

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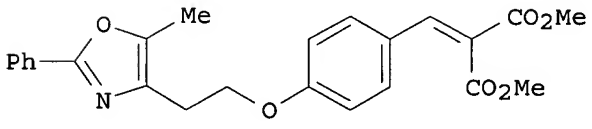


III

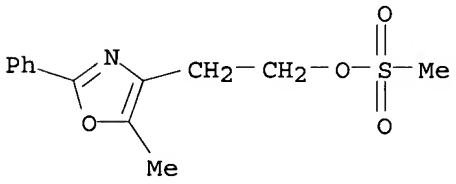
AB Disclosed is a process for producing an isooxazolidinedione compound (I; wherein R is an optionally substituted aromatic hydrocarbon group, optionally substituted alicyclic hydrocarbon group, optionally substituted heterocyclic group, or optionally substituted fused heterocyclic group), which is useful as an diabetic remedy (no data). The process, which is industrially utilizable, comprises using β-Me L-aspartate as a starting compound to produce the target compound I in a high yield via an oxazole compound (II; wherein R is the same as the above) which is an important intermediate. Thus, β-Me L-aspartate was acylated by benzoyl chloride in aqueous Na2CO3 at 5-18° for 3 h 20 min to give N-benzoyl-L-aspartic acid β-Me ester. The latter compound was heated with Ac2O and N-morpholine in PhMe at 55-60° for 4 h to give a

toluene solution of Me 3-benzoylamino-4-oxopentanoate which was treated with p-MeC6H4SO3H.H2O at 85-90° for 5 h to give 97.7% Me 2-(5-methyl-2-phenyl-4-oxazolyl)acetate. A suspension of the latter ester and NaBH4 in THF was heated at 60° with stirring and treated dropwise with MeOH over 1 h to give 89.7% II (R = Ph) which was mesylated by methanesulfonyl chloride in the presence of Et3N in toluene under ice-cooling for 1 h to give 100% 2-(5-methyl-2-phenyl-4-oxazolyl)ethyl methanesulfonate. The latter mesylate was condensed with di-Me 2-(4-hydroxybenzylidene)malonate in the presence of Bu4NBr and K2CO3 in toluene at 110° for 6 h to give 85.0% precursor (III) which was hydrogenated over 5% Pd-C in THF and cyclocondensed with hydroxylamine in MeOH in the presence of K2CO3 at room temperature for 6 h to give 80% I (R = Ph).

IT **227029-27-8P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for producing antidiabetic isooxazolidinedione compound from aspartic acid β-Me ester)

RN 227029-27-8 CAPLUS

CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	75.48	663.98

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-9.70	-26.33

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L11           2 S L9 SSS FULL

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L16           0 S L15 AND BROMIN?
L17           0 S L15 AND BROMINATING

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L15  ANSWER 1 OF 14  CAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:         2004:41231  CAPLUS
TITLE:                    Preparation of substituted heterocyclic derivatives
                          useful as antidiabetic and antiobesity agents
INVENTOR(S):              Cheng, Peter T. W.; Chen, Sean; Devasthale, Pratik;
                          Ding, Charles Z.; Herpin, Timothy F.; Wu, Shung;
                          Zhang, Hao; Wang, Wei; Ye, Xiang-Yang
PATENT ASSIGNEE(S):       Bristol-Myers Squibb Company, USA
SOURCE:                   PCT Int. Appl., 543 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
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     WO 2004004665      A2   20040115      WO 2003-US22149  20030702
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,
             TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG,
             KZ, MD, RU, TJ
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
             NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
             GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:                  US 2002-394508P  P  20020709
GI
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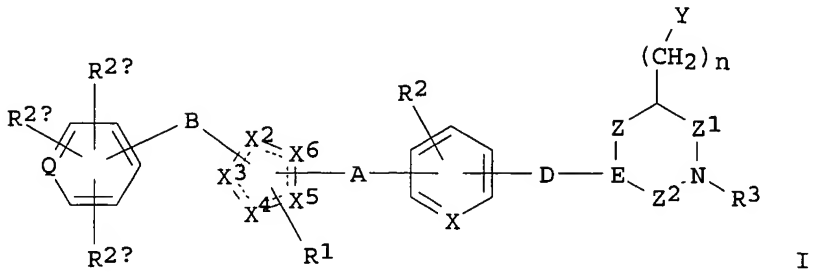


I

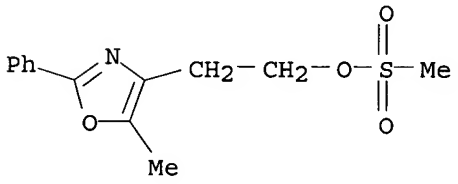
AB The title compds. (I) [Z1 = (CH2)q, CO; Z2 = (CH2)p, CO; D = CH, CO, (CH2)m (where m = 0-3; p = 1, 2; q = 0-2); n = 0-2; Q = C, N; A = (CH2)x (where x = 1-5); A = (CH2)x1 (where x1 = 1-5) with an alkenyl bond or an alkynyl bond embedded anywhere in the chain; or A = -(CH2)x2-O-(CH2)x3- (where X2, X3 = 0 to 5, provided that at least one of x2 and x3 is other than 0); B = a bond or (CH2)x4 (where x4 = 1-5); X = CH, N; X2-X6 = C, N, O, or S and at least one of X2-X6 is C; R1 = H, alkyl; R2 = H, alkyl, alkoxy, halogen, (un)substituted amino; R2a, R2b, R2c = H, alkyl, alkoxy, halogen, (un)substituted amino, cyano; R3 = H, alkyl, arylalkyl, aryloxycarbonyl, alkyloxycarbonyl, alkynyloxycarbonyl, alkenyloxycarbonyl, arylcarbonyl, alkylcarbonyl, aryl, heteroaryl, cycloheteroalkyl, etc.; E = CH, N; Z = (CH2)x5 (where x5 is 0, i.e. a single or a double bond, 1, 2), or Z is (CH2)x6 (where x6 = 2-5), where (CH2)x6 includes an alkenyl (C:C) bond embedded within the chain or Z = -(CH2)x7-O-(CH2)x8- (where x7, x8 = 0-4); (CH2)x to (CH2)x8, (CH2)m, (CH2)n, (CH2)p and (CH2)q may be optionally substituted; Y = CO2R4 (where R4 = H, alkyl, or a prodrug ester), or Y = a C-linked 1-tetrazole, a phosphinic acid of the structure P(O)(OR4a)R5 [where R4a = H, a prodrug ester; R5 = alkyl or aryl, or a phosphonic acid of the structure P(O)(OR4a)2]] including all stereoisomers, prodrug esters, and pharmaceutically acceptable salts thereof are prepared These compds., e.g. cis-1-ethoxycarbonyl-4-[3-[2-(2-phenyl-5-methyloxazol-4-yl)ethoxy]phenyl]pyrrolidin-3-ylacetic acid and cis-1-(6-trifluoromethylpyrimidin-2-yl)-4-[3-[2-(2-phenyl-5-methyloxazol-4-yl)ethoxy]phenyl]pyrrolidine-3-carboxylic acid, modulate serum levels of blood glucose, triglyceride, insulin, and nonesterified fatty acid (NEFA) levels, and thus are particularly useful in the treatment of diabetes and obesity, especially Type 2 diabetes, as well as hyperglycemia, hyperinsulinemia, hyperlipidemia, obesity, atherosclerosis, and related diseases employing such substituted acid derivs. alone or in combination with another antidiabetic agent and/or a hypolipidemic agent and/ or other therapeutic agents. Disclosed is a method for treating diabetes, especially Type 2 diabetes, and related diseases such as insulin resistance, hyperglycemia, hyperinsulinemia, elevated blood levels of fatty acids or glycerol, hyperlipidemia, obesity, hypertriglyceridemia, inflammation, Syndrome X, diabetic complications, dysmetabolic syndrome, atherosclerosis, and related diseases, which comprises administering to a patient in need of treatment a therapeutically effective amount of the compound I. Also disclosed is a method for treating early malignant lesions (such as ductal carcinoma in situ of the breast and lobular carcinoma in situ of the breast), premalignant lesions including fibroadenoma of the breast and prostatic intraepithelial neoplasia (PIN), liposarcomas and various other epithelial tumors (including breast, prostate, colon, ovarian, gastric and lung), irritable bowel syndrome, Crohn's disease, gastric ulceritis, and osteoporosis and proliferative diseases such as psoriasis, which comprises administering to a patient in need of treatment a therapeutically

effective amount of the compound I.

IT **227029-27-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of substituted heterocyclic derivs. as antidiabetic and antiobesity agents)

RN 227029-27-8 CAPLUS

CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



L15 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:656421 CAPLUS
DOCUMENT NUMBER: 139:197489
TITLE: Preparation of azolecarboxylic acids useful as antidiabetic and antiobesity agents
INVENTOR(S): Cheng, Peter T.; Zhang, Hao; Hariharan, Narayanan
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 81 pp., Cont.-in-part of U.S. Ser. No. 153,454.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003158232	A1	20030821	US 2002-294525	20021114
US 2003092736	A1	20030515	US 2002-153454	20020522

PRIORITY APPLN. INFO.: US 2001-294380P P 20010530
US 2002-153454 A2 20020522

OTHER SOURCE(S): MARPAT 139:197489
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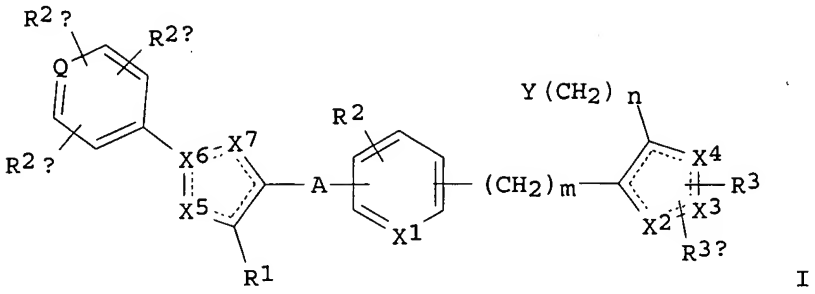

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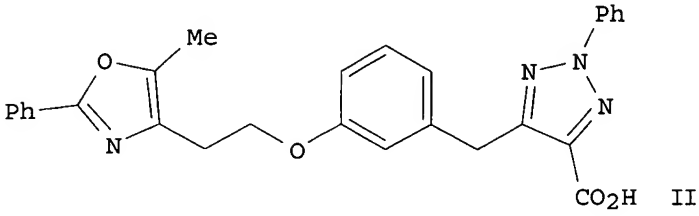


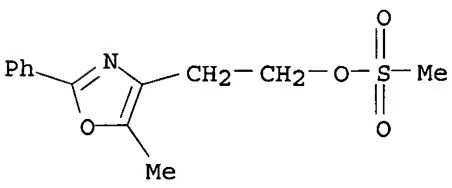
II

AB Title compds. [I; m, n = 0-2; Q = C, N; A = (CH2)x, (CH2)x1, (CH2)x2O(CH2)x3; x = 1-5; x1 = 2-5; x2, x3 = 0-5; ≥1 of x2, x3 ≠ 0; X1 = CH, N; X2, X3, X4, X5, X7 = C, N, O, S; in each of X1-X7, C may include CH; R1 = H, alkyl; R2 = H, alkyl, alkoxy, halo, (substituted) amino; R2a, R2b and R2c = H, alkyl, alkoxy, halo, (substituted) amino; R3, R3a = H, alkyl, arylalkyl, aryloxycarbonyl, alkyloxycarbonyl, alkynyloxycarbonyl, alkenyloxycarbonyl, arylcarbonyl, etc.; Y = CO2R4, 1-tetrazolyl, P(O)(OR4a)R5, P(O)(OR4a)2; R4 = H, alkyl, prodrug ester; R4a = H, prodrug ester; R5 = alkyl, aryl; with provisos], were prepared as simultaneous inhibitors of peroxisome proliferator activated receptor-γ (PPARγ) and stimulators of peroxisome proliferator activated receptor-α (PPARα). Thus, title compound (II) (prepared starting from Meldrum's acid 3-methoxyphenylacetyl chloride) bound to human PPARα and to PPARγ ligand binding domains with IC50 = 69 nM.

IT **227029-27-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn of azolecarboxylic acids useful as antidiabetic and antiobesity agents)

RN 227029-27-8 CAPLUS

CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



L15 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:526945 CAPLUS
DOCUMENT NUMBER: 139:337909
TITLE: Synthesis of JTT-501 and its metabolite JTP-20604 labeled with 13C
AUTHOR(S): Pignatti, A.; Giribone, D.; Felicini, C.; Fontana, E.
CORPORATE SOURCE: Global Drug Metabolism, Pharmacia, Nerviano, 20014, Italy
SOURCE: Journal of Labelled Compounds & Radiopharmaceuticals (2003), 46(7), 605-611
CODEN: JLCRD4; ISSN: 0362-4803
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
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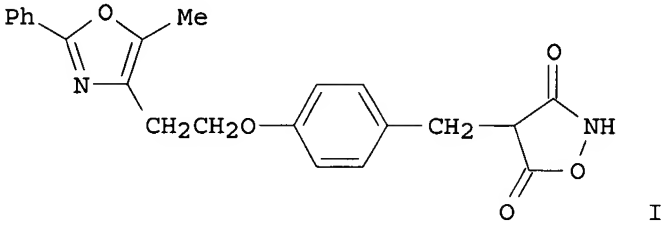

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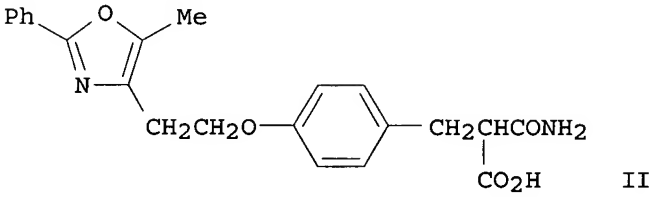
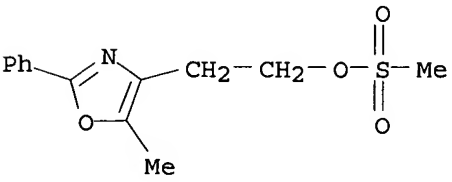


II

AB 13C-labeled JTT-501 (I, Ph ring completely labeled with 13C) was obtained via a four-step synthesis at an isotopic enrichment level of 99% and in 14% overall chemical yield starting from 4-hydroxy-[ring-U-13C6]benzaldehyde. Hydrogenation of [13C6]JTT-501 over Pd/C gave [13C6]JTP-20604 in 90% chemical yield.

IT **227029-27-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of JTT-501 and its metabolite JTP-20604 labeled with 13C)

RN 227029-27-8 CAPLUS
CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:349276 CAPLUS
DOCUMENT NUMBER: 138:368621
TITLE: Preparation of benzamides as peroxisome proliferator-activated receptor (PPAR) γ modulators for treatment of diseases
INVENTOR(S): Amanomiya, Yoshiya; Amano, Seiji; Wakabayashi, Kenji
PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 49 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003128639	A2	20030508	JP 2001-327197	20011025

PRIORITY APPLN. INFO.: JP 2001-327197 20011025
OTHER SOURCE(S): MARPAT 138:368621
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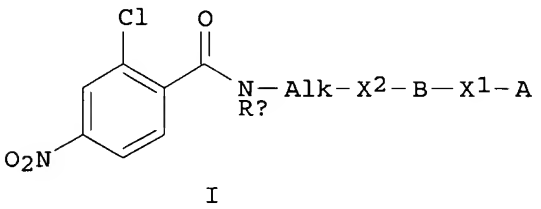
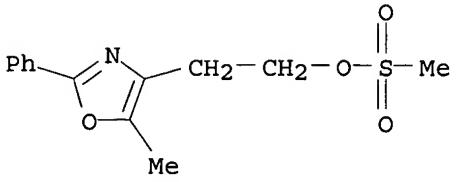


I

AB Benzamides I [A = H, NH2, C1-12 alkylamino, OH, SH, CO2H, (un)substituted C1-6 alkyl, heterocyclyl, etc.; Alk = C1-6 alkylene; B = bond, (un)substituted aryl, cycloalkyl, heterocyclyl; Ra = H, C1-6 alkyl, aralkyl; X1, X2 = bond, O, S, CO, NH, SO2NH, NHSO2, CONH, NHCO] or their pharmacol. acceptable salts are prepared They are useful for prevention or treatment of osteoporosis, diabetes, hyperlipidemia, arteriosclerosis, obesity, tumor, etc. Thus, amidation of benzylamine with 2-chloro-5-nitrobenzoyl chloride gave 72% N-benzyl-(2-chloro-5-nitrophenyl)carboxamide, which activated or deactivated transcription of PPAR γ with EC50 value of 460 nM and IC50 value of 25 nM, resp.

IT **227029-27-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzamides as peroxisome proliferator-activated receptor γ modulators for treatment of diseases)

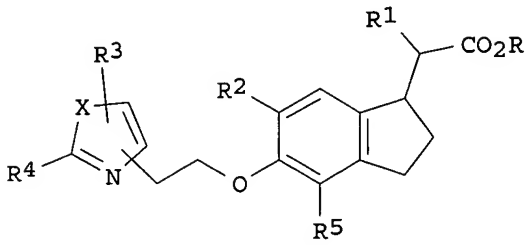
RN 227029-27-8 CAPLUS
CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



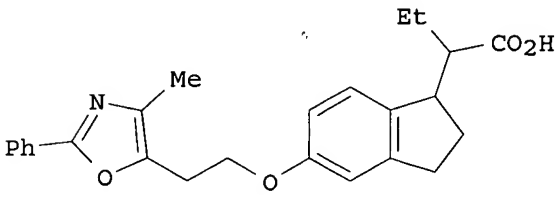
L15 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:117811 CAPLUS
DOCUMENT NUMBER: 138:153524
TITLE: Preparation of indaneacetic acid derivatives for treating diabetes, obesity, hyperlipidemia, and atherosclerotic diseases
INVENTOR(S): Lowe, Derek B.; Wickens, Philip L.; Ma, Xin; Zhang, Mingbao; Bullock, William H.; Coish, Philip D. G.; Mugge, Ingo A.; Stolle, Andreas; Wang, Ming; Wang, Yamin; Zhang, Chengzhi; Zhang, Hai-Jun; Zhu, Lei; Tsutsumi, Manami; Livingston, James N.
PATENT ASSIGNEE(S): Bayer Corporation, USA
SOURCE: PCT Int. Appl., 189 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003011842	A1	20030213	WO 2002-US23614	20020725
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003216391	A1	20031120	US 2002-205839	20020725

PRIORITY APPLN. INFO.: US 2001-308500P P 20010727
US 2002-373048P P 20020416
OTHER SOURCE(S): MARPAT 138:153524
GI



I



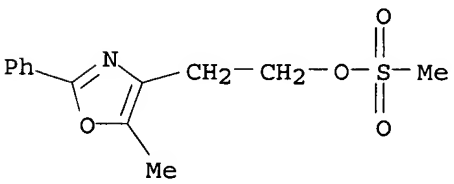
II

AB The title compds. I [R = H, alkyl; R1 = H, CO2R, cycloalkyl, etc.; R2 = H, halo, alkyl, etc.; R3 = H, alkyl, (un)substituted Ph; X = O, S; R4 = alkyl, cycloalkyl, Ph, etc.; R5 = H, halo, alkyl optionally substituted with oxo], useful in the treatment of diseases such as diabetes, obesity, hyperlipidemia, and atherosclerotic diseases, were prepared and formulated. Thus, reacting 2-(4-methyl-2-phenyl-1,3-oxazol-5-yl)ethanol with Me 5-hydroxy-2,3-dihydroinden-1-yl-2-butanoate (prepns. given) in the presence of DEAD and PPh3 in THF followed by hydrolysis of the ester afforded the acid II.

IT **227029-27-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of indane acetic acid derivs. for treating diabetes, obesity, hyperlipidemia, and atherosclerotic diseases)

RN 227029-27-8 CAPLUS

CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

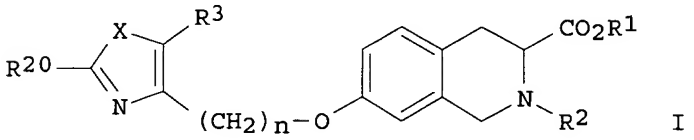
L15 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:927426 CAPLUS
DOCUMENT NUMBER: 138:14050
TITLE: Preparation of novel heterocyclic derivatives and medicinal use thereof
INVENTOR(S): Matsui, Hiroshi; Kobayashi, Hideo; Azukizawa, Satoru;

Kasai, Masayasu; Yoshimi, Akihisa; Shirahase, Hiroaki
PATENT ASSIGNEE(S): Kyoto Pharmaceutical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 72 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002096904	A1	20021205	WO 2002-JP5098	20020527

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 2001-161488 A 20010529
OTHER SOURCE(S): MARPAT 138:14050
GI



I

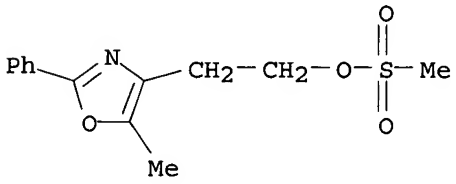
AB Novel heterocyclic derivs., i.e. 7-[(oxazol-4-yl or thiazol-4-y)alkoxy]-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid derivs. represented by the following general formula (I) or pharmaceutically acceptable salts thereof [wherein R1 represents H or C1-6 alkyl; R2 represents -COC(R4):C(R4)-R5 (wherein R4 represents H or C1-4 alkyl; and R5 represents C4-8 alkyl, C2-8 alkenyl, aryl or an aromatic heterocycle), -CO-C.tplbond.CR6 (wherein R6 represents C1-8 alkyl), etc.; R3 represents H or C1-4 alkyl; X represents O or S; R20 represents optionally substituted phenyl; and n is an integer of from 1 to 4] are prepared These compds. I are useful as antihyperglycemics, antilipemics, insulin resistance-ameliorating drugs, remedies for diabetes, remedies for diabetic complications, drugs for ameliorating glucose tolerance insufficiency, antiarteriosclerotics, antiobesity agents, antiinflammatory agents, preventives/remedies for peroxisome proliferator-activated receptor (PPAR)-mediate diseases, and preventives/remedies for X syndrome. Thus, 200 mg 2-(2-heptenoyl)-7-hydroxy-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid Me ester and 260 mg 2-(5-methyl-2-phenyloxazol-4-yl)ethyl methanesulfonate were dissolved in 6 mL toluene and treated with 260 mg K2CO3 and 40 mg tetraethylammonium fluoride hydrate at 80° for 10 h to give, after saponification with a mixture of 1 M aqueous LiOH, THF, and MeOH, 2-(2-heptenoyl)-7-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid (II). II and (3S)-7-[2-[2-(4-tert-butylphenyl)-5-methyl-2-phenyloxazol-4-yl]ethoxy]-2-(2,4-hexadienoyl)-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid tert-butylamine salt at 10 mg/kg/day for 4 days lowered blood glucose

level by 46.8 and 60.9%, resp., and blood triglyceride level by 44.9 and 73.4%, resp., in spontaneously diabetic male KKYy mice.

IT **227029-27-8P**, 2-(5-Methyl-2-phenyloxazol-4-yl)ethyl methanesulfonate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of [(oxazolyl or thiazolyl)alkoxy]tetrahydroquinolinecarboxylic acid derivs. and medicinal use thereof)

RN 227029-27-8 CAPLUS

CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

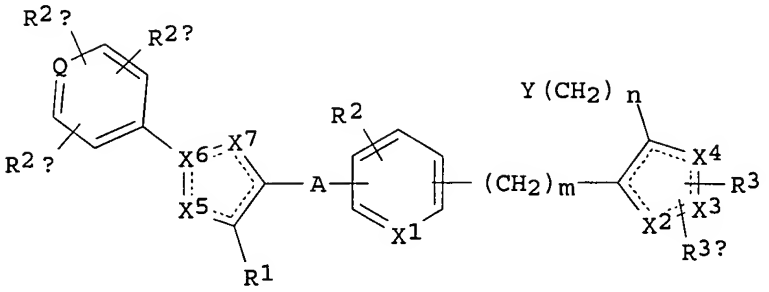
L15 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:927185 CAPLUS
DOCUMENT NUMBER: 138:24716
TITLE: Preparation of azolecarboxylic acids useful as antidiabetic and antiobesity agents
INVENTOR(S): Cheng, Peter T.; Zhang, Hao; Hariharan, Narayanan
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 169 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002096358	A2	20021205	WO 2002-US16633	20020523
WO 2002096358	A3	20030327		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-294380P P 20010530
OTHER SOURCE(S): MARPAT 138:24716
GI



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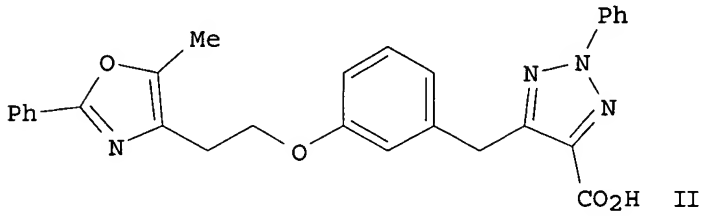


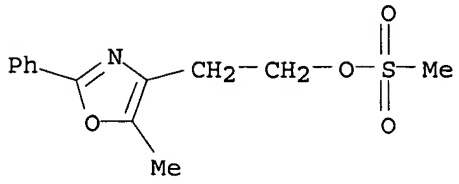
II

AB Title compds. [I; m, n = 0-2; Q = C, N; A = (CH2)x, (CH2)x1, (CH2)x2O(CH2)x3; x = 1-5; x1 = 2-5; x2, x3 = 0-5; ≥1 of x2, x3 ≠ 0; X1 = CH, N; X2, X3, X4, X5, X7 = C, N, O, S; in each of X1-X7, C may include CH; R1 = H, alkyl; R2 = H, alkyl, alkoxy, halo, (substituted) amino; R2a, R2b and R2c = H, alkyl, alkoxy, halo, (substituted) amino; R3, R3a = H, alkyl, arylalkyl, aryloxycarbonyl, alkyloxycarbonyl, alkynyloxycarbonyl, alkenyloxycarbonyl, arylcarbonyl, alkylcarbonyl, aryl, heteroaryl, alkyl(halo)aryloxycarbonyl, alkoxy(halo)aryloxycarbonyl, cycloalkylaryloxycarbonyl, cycloalkyloxyaryloxycarbonyl, cycloheteroalkyl, heteroarylcarbonyl, heteroarylheteroarylalkyl, alkylcarbonylamino, arylcarbonylamino, heteroarylcarbonylamino, alkoxycarbonylamino, aryloxycarbonylamino, heteroarylheteroarylcarbonyl, alkylsulfonyl, alkenylsulfonyl, heteroaryloxycarbonyl, cycloheteroalkyloxycarbonyl, heteroarylalkyl, aminocarbonyl, substituted aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, aryloxyarylalkyl, alkynyloxycarbonyl, haloalkoxyaryloxycarbonyl, alkoxycarbonylaryloxycarbonyl, aryloxyaryloxycarbonyl, arylsulfinylarylcarbonyl, etc.; Y = CO2R4, 1-tetrazolyl, P(O)(OR4a)R5, P(O)(OR4a)2; R4 = H, alkyl, prodrug ester; R4a = H, prodrug ester; R5 = alkyl, aryl; with provisos], were prepared as simultaneous inhibitors of peroxisome proliferator activated receptor-γ (PPARγ) and stimulators of peroxisome proliferator activated receptor-α (PPARα). Thus, title compound (II) (prepared starting from Meldrum's acid 3-methoxyphenylacetyl chloride) bound to human PPARα and to PPARγ ligand binding domains with IC50 = 69 nM.

IT **227029-27-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn of azolecarboxylic acids useful as antidiabetic and antiobesity agents)

RN 227029-27-8 CAPLUS

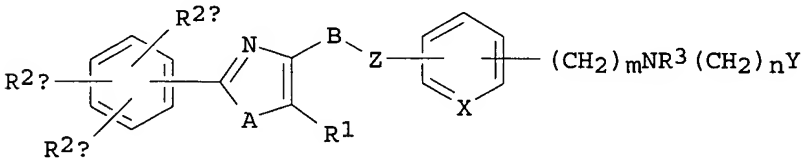
CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



L15 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:502825 CAPLUS
DOCUMENT NUMBER: 137:63237
TITLE: Preparation of oxazolyl- and thiazolylalkoxybenzylglycines and related compounds as antidiabetic and antiobesity agents
INVENTOR(S): Cheng, Peter T.; Devasthale, Pratik; Jeon, Yoon; Chen, Sean; Zhang, Hao
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: U.S., 190 pp., Cont.-in-part of U.S. Ser. No. 664,598.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6414002	B1	20020702	US 2001-812960	20010320
US 2003069275	A1	20030410	US 2002-80965	20020222
US 2003087935	A1	20030508	US 2002-81075	20020222
US 2003096846	A1	20030522	US 2002-80981	20020222
US 6653314	B2	20031125		

PRIORITY APPLN. INFO.: US 1999-155400P P 19990922
US 2000-664598 A2 20000918
US 2001-812960 A3 20010320
OTHER SOURCE(S): MARPAT 137:63237
GI



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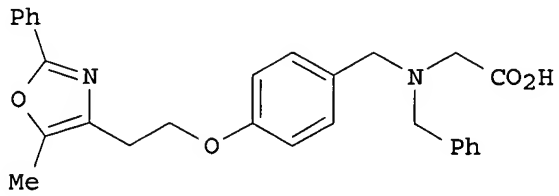


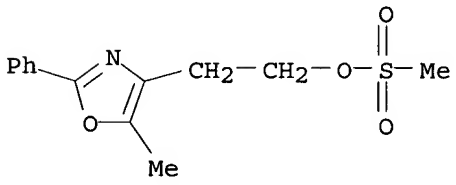
II

AB Title compds. I [wherein Q = C, N; A = O, S; B = (CH2)x; Z = O, bond; X =

CH, N; R1 = H, alkyl; R2 = H, alkyl, alkoxy, halo, amino; R3 = H, alkyl, aralkyl, aryloxycarbonyl, alkoxycarbonyl, arylcarbonyl, alkylcarbonyl, aryl, heteroaryl, hydroxyalkyl, aryloxyarylalkyl, etc.; R2a, R2b, R2c = H, alkyl, alkoxy, halo, amino; Y = CO2R4, 1-tetrazolyl, PO(OR4a)R5; R4 = H, alkyl, prodrug or ester; R4a = H, prodrug ester; R5 = alkyl, aryl; x = 1-4; m, n = 1, 2] were prepared as modulators of blood glucose levels, triglyceride levels, insulin levels, and non-esterified fatty acid levels (no data). For example, 4-hydroxybenzaldehyde, 5-methyl-2-phenyloxazole-4-ethanol, Ph3P, and DEAD were stirred in THF at 0°-room temperature to give 4-(5-methyl-2-phenyloxazole-4-ethyl)benzaldehyde (65%). Addition of N-benzylglycine Et ester and NaBH(OAc)3 in 1,2-dichloroethane afforded the benzylamine derivative (55%), which was stirred with aqueous NaOH in MeOH for 14 h to give the title compound II (71%). I are useful for the treatment of diabetes, especially Type II diabetes, as well as hyperglycemia, hyperinsulinemia, hyperlipidemia, obesity, atherosclerosis, and related diseases (no data).

IT **227029-27-8P**, 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester)
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of oxazolyl- and thiazolylalkoxybenzylglycines and related compds. as antidiabetic and antiobesity agents)

RN 227029-27-8 CAPLUS
CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:780884 CAPLUS
DOCUMENT NUMBER: 135:331416
TITLE: Preparation of thiazolidinedione derivatives and intermediates
INVENTOR(S): Scalone, Michelangelo
PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
SOURCE: PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001079202	A1	20011025	WO 2001-EP3802	20010404

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CO, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,

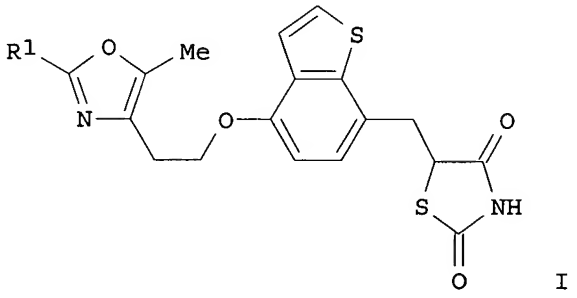
MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2001049445	A1	20011206	US 2001-814907	20010322
US 6531609	B2	20030311		
EP 1282619	A1	20030212	EP 2001-931561	20010404
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003531146	T2	20031021	JP 2001-576801	20010404
US 2003092916	A1	20030515	US 2002-288316	20021105
US 6620941	B2	20030916		
US 2004024222	A1	20040205	US 2003-634395	20030805

PRIORITY APPLN. INFO.:
EP 2000-108303 A 20000414
US 2001-814907 A3 20010322
WO 2001-EP3802 W 20010404
US 2002-288316 A3 20021105

OTHER SOURCE(S): CASREACT 135:331416; MARPAT 135:331416

GI



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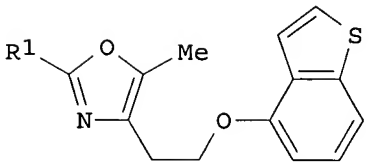
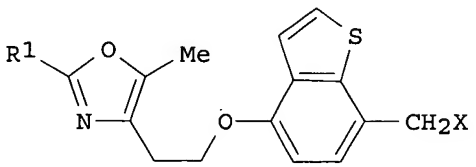


II



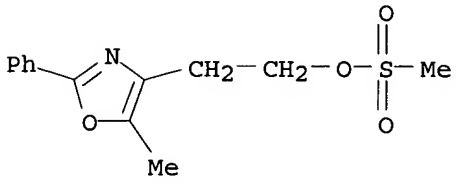
III

AB The title compds. [I; R1 = (hetero)aryl] and their corresponding salts, e.g., the sodium salts, which are pharmaceutically active substances in the treatment of diabetes (no biol. data) were prepared via bromomethylation or chloromethylation of II and subsequent reaction of III [X = Cl, Br] with 2,4-thiazolidinedione.

IT **227029-27-8P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of thiazolidinedione derivs. and intermediates)

RN 227029-27-8 CAPLUS

CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:581856 CAPLUS
DOCUMENT NUMBER: 135:152795
TITLE: Process for synthesis of oxazolethoxyphenylpropanoic acid derivative for use as NIDDM medicament
INVENTOR(S): Davis, Roman; Kennedy, Andrew
PATENT ASSIGNEE(S): Glaxo Group Limited, UK
SOURCE: PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001057001	A1	20010809	WO 2001-EP1041	20010201

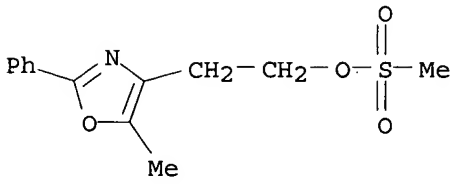
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: GB 2000-2667 A 20000204

AB Process for synthesis of calcium salt of (2S)-2-{[(Z)-1-methyl-3-oxo-3-phenyl-1-propenyl]amino}-3-{4-[2-(5-methyl-2-phenyl-1,3-oxazol-4-yl)ethoxy]phenyl}propanoic acid and physiol. acceptable solvates thereof, useful as NIDDM medicament is disclosed.

IT **227029-27-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of oxazolethoxyphenylpropanoic acid derivative for NIDDM medicament)

RN 227029-27-8 CAPLUS
CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)

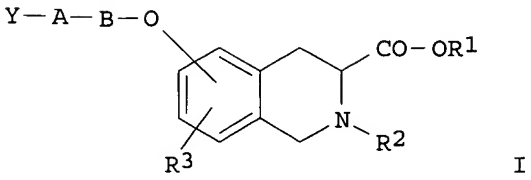


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:416908 CAPLUS
DOCUMENT NUMBER: 135:5608
TITLE: Preparation of heterocyclic compounds as hypoglycemics, hypolipemics, inflammation inhibitors, and remedies for arteriosclerosis and obesity
INVENTOR(S): Matsui, Hiroshi; Kobayashi, Hideo; Azukizawa, Satoru; Kasai, Masayasu; Yoshimi, Akihisa; Shirahase, Hiroaki
PATENT ASSIGNEE(S): Kyoto Pharmaceutical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 122 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001040192	A1	20010607	WO 2000-JP8464	20001129
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001016495	A5	20010612	AU 2001-16495	20001129
EP 1236719	A1	20020904	EP 2000-979026	20001129
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
NZ 519592	A	20031128	NZ 2000-519592	20001129
NO 2002002600	A	20020805	NO 2002-2600	20020531
US 2003027836	A1	20030206	US 2002-148386	20020531
US 6589963	B2	20030708		

PRIORITY APPLN. INFO.: JP 1999-345543 A 19991203
JP 2000-295108 A 20000927
WO 2000-JP8464 W 20001129
OTHER SOURCE(S): MARPAT 135:5608
GI



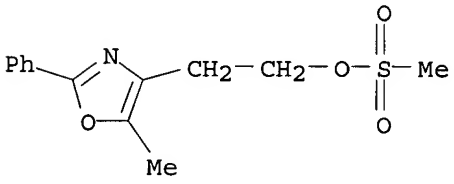
I

AB The title compds. I [R1 represents hydrogen or lower alkyl; R2 represents hydrogen, optionally substituted alkyl, etc.; R3 represents hydrogen, lower alkyl, etc.; A represents a single bond or NR5 (wherein R5 represents hydrogen or lower alkyl); B represents lower alkylene; and Y represents optionally substituted aryl, etc.] are prepared Because of their effects of lowering blood glucose level, lowering blood lipid level, decreasing insulin resistance and activating PPAR, these compds. are useful as hypoglycemics, hypolipidemics, remedies for diabetes, remedies for complications of diabetes, agents for ameliorating impaired glucose tolerance, antiarteriosclerosis agents, antiobesity agents, antiinflammatory agents, preventives and remedies for PPAR-mediated diseases and preventives and remedies for X syndrome. 2-Benzyl-7-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]-1,2,3,4-tetrahydroisoquinoline-(3S)-carboxylic acid at 10 mg/kg/day orally for 4 days gave 38.3% decrease of blood glucose in mice.

IT **227029-27-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of heterocyclic compds. as hypoglycemics, hypolipemics, inflammation inhibitors, and remedies for arteriosclerosis and obesity)

RN 227029-27-8 CAPLUS

CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:228872 CAPLUS

DOCUMENT NUMBER: 134:266299

TITLE: Preparation of oxazolyl- and thiazolylalkoxybenzylglycines and related compounds as antidiabetic and antiobesity agents.

INVENTOR(S): Cheng, Peter T. W.; Devasthale, Pratik; Jeon, Yoon T.; Chen, Sean; Zhang, Hao

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 362 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

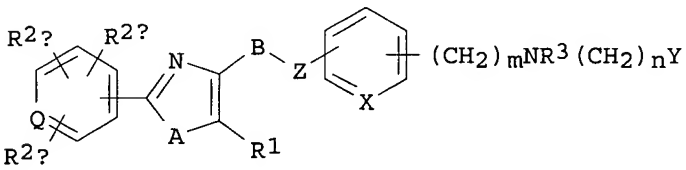
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001021602	A1	20010329	WO 2000-US25710	20000919
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1218361	A1	20020703	EP 2000-965172	20000919
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
BR 2000014189	A	20020820	BR 2000-14189	20000919
JP 2003509503	T2	20030311	JP 2001-524981	20000919
NO 2002001408	A	20020514	NO 2002-1408	20020321

PRIORITY APPLN. INFO.: US 1999-155400P P 19990922
WO 2000-US25710 W 20000919

OTHER SOURCE(S): MARPAT 134:266299
GI



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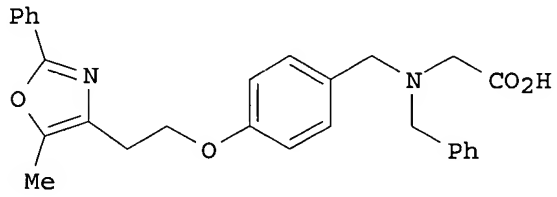


II

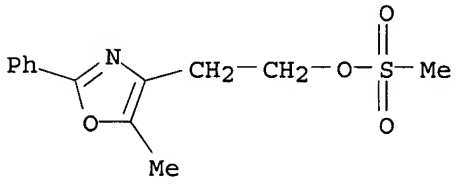
AB Title compds. [I; Q = C, N; A = O, S; B = (CH2)x; Z = O, bond; X = CH, N; R1 = H, alkyl; R2 = H, alkyl, alkoxy, halo, amino; R3 = H, alkyl, aralkyl, aryloxycarbonyl, alkoxycarbonyl, arylcarbonyl, alkylcarbonyl, aryl, heteroaryl, hydroxyalkyl, aryloxyarylalkyl, etc.; R2a, R2b, R2c = H, alkyl, alkoxy, halo, amino; Y = CO2R4, 1-tetrazolyl, PO(OR4a)R5; R4 = H, alkyl, prodrug or ester; R4a = H, prodrug ester; R5 = alkyl, aryl; x = 1-4; m, n = 1, 2], were prepared as modulators of blood glucose levels, triglyceride levels, insulin levels, and non-esterified fatty acid levels (no data). Thus, 4-hydroxybenzaldehyde, 5-methyl-2-phenyloxazole-4-ethanol, Ph3P, and DEAD were stirred in THF at 0°-room temperature to give 65% 4-(5-methyl-2-phenyloxazole-4-ethyl)benzaldehyde. This was stirred 12 h with N-benzylglycine Et ester and NaBH(OAc)3 in 1,2-dichloroethane to give 55% benzylamine derivative, which was stirred 14 h

with aqueous NaOH in MeOH to give 71% title compound (II).

IT **227029-27-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of oxazolyl- and thiazolylalkoxybenzylglycines and related compds. as antidiabetic and antiobesity agents)

RN 227029-27-8 CAPLUS

CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)

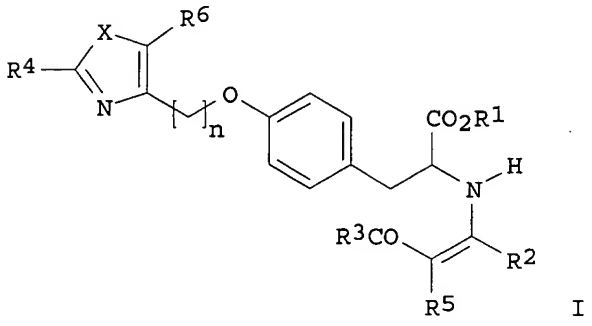


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:117035 CAPLUS
DOCUMENT NUMBER: 132:151814
TITLE: Preparation of substituted oxazoles and thiazoles as hPPAR gamma and hPPAR alpha activators
INVENTOR(S): Collins, Jon Loren; Dezube, Milana; Oplinger, Jeffrey Alan; Willson, Timothy Mark
PATENT ASSIGNEE(S): Glaxo Group Limited, UK
SOURCE: PCT Int. Appl., 110 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000008002	A1	20000217	WO 1999-EP5666	19990805
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2339773	AA	20000217	CA 1999-2339773	19990805
AU 9957310	A1	20000228	AU 1999-57310	19990805
EP 1102757	A1	20010530	EP 1999-944335	19990805
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9912866	A	20011030	BR 1999-12866	19990805
EE 200100074	A	20020617	EE 2001-74	19990805
ZA 2001000983	A	20020305	ZA 2001-983	20010205
NO 2001000628	A	20010406	NO 2001-628	20010206
HR 2001000095	A1	20020228	HR 2001-95	20010207

US 6498174 B1 20021224 US 2001-762445 20010222
PRIORITY APPLN. INFO.: GB 1998-17118 A 19980807
WO 1999-EP5666 W 19990805
OTHER SOURCE(S): MARPAT 132:151814
GI

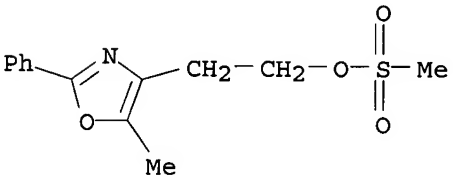


I

AB The title compds. [I; R1 = H, alkyl; R2 = H, alkyl, haloalkyl; R3 = alkyl, cycloalkyl, cycloalkenyl, etc.; R4 = (un)substituted 5-6 membered heterocyclyl containing at least one O, N or S atom, Ph; R5 = H, halo, alkyl, haloalkyl; R6 = H, alkyl; X = O, S; n = 1-3], which are dual activators of hPPARγ and hPPARα, were prepared Thus, refluxing a suspension of (2S)-2-amino-3-{4-[2-(5-methyl-2-phenyl-1,3-oxazol-4-yl)ethoxy]phenyl}propanoic acid (preparation given) and benzoylacetone in MeOH and trimethylorthoformate afforded 43% (2S)-(Z)-I [R1 = H; R2 = Me; R3 = Ph; R4 = Ph; R5 = H; R6 = Me; X = O; n = 2] which showed 39% glucose reduction in rats.

IT **227029-27-8P 258347-24-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of substituted oxazoles and thiazoles as hPPAR gamma and hPPAR alpha activators)

RN 227029-27-8 CAPLUS
CN 4-Oxazoleethanol, 5-methyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)



RN 258347-24-9 CAPLUS
CN 4-Oxazoleethanol, 5-ethyl-2-phenyl-, methanesulfonate (ester) (9CI) (CA INDEX NAME)